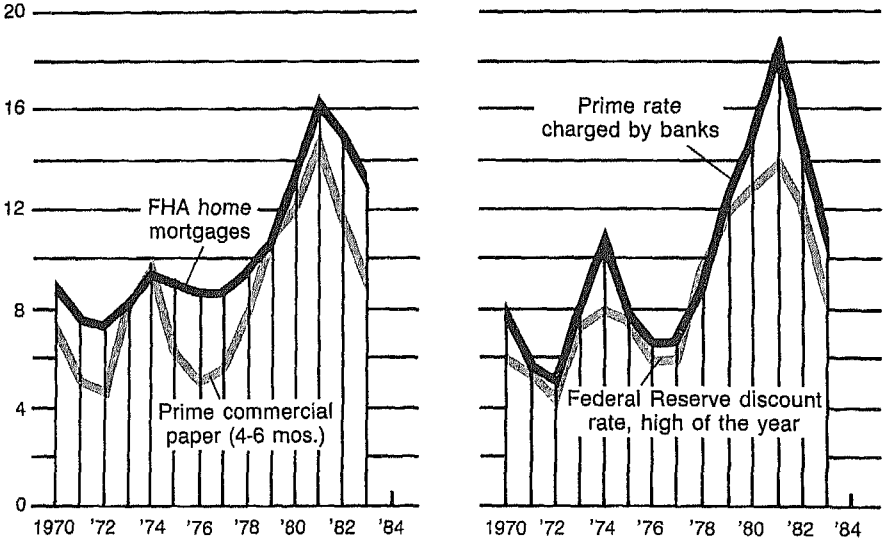


Figure 17.1
Money Market Rates: 1970 to 1983

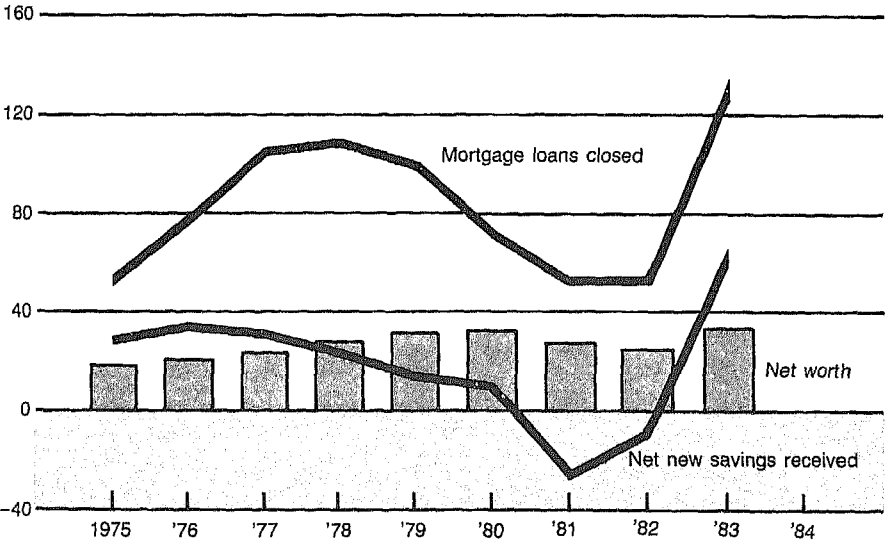
Percent per annum



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 847 and 850.

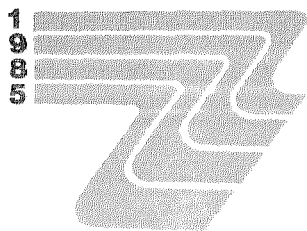
Figure 17.2
Savings Institutions — Financial Items: 1975 to 1983

Billions of dollars



[Note: Represents FSLIC (Federal Savings and Loan Insurance Corporations) insured institutions]

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 834.



Banking, Finance, and Insurance

This section presents data on the Nation's finances, various types of financial institutions, money and credit, securities, and insurance. The primary sources of these data are publications of several departments of the Federal Government, especially the Treasury Department, and independent agencies such as the Federal Deposit Insurance Corporation, the Federal Reserve System, and the Securities and Exchange Commission. National data on insurance are available primarily from private organizations, such as the American Council of Life Insurance.

Flow of funds.—The flow of funds accounts of the Federal Reserve System (see tables 808 to 812) bring together statistics on all of the major forms of financial transactions and financial claims to present an economy-wide view of asset and liability relationships. In flow form, the accounts relate borrowing and lending to one another and to the nonfinancial activities that generate income and production. Each claim outstanding is included simultaneously as an asset of the lender and as a liability of the debtor. The accounts also indicate the balance between asset totals and liability totals over the economy as a whole. Several publications of the Board of Governors of the Federal Reserve System contain information on the flow of funds accounts: Summary data on flows, in the *Federal Reserve Bulletin*, *Flow of Funds Accounts* (quarterly), and *Annual Statistical Digest*; and concepts and organization of the accounts, in *Introduction to Flow of Funds* (June 1980).

Banking system.—Banks in this country are organized under the laws of both the States and the Federal Government and are regulated by several bank supervisory agencies. State-chartered banks are supervised by officials of the respective States. National banks are supervised by the Comptroller of the Currency. *Reports of Condition* have been collected from national banks since 1863. Summaries of these reports are published in the Comptroller's *Annual Report*, which also presents data on the structure of the national banking system.

The Federal Reserve System was established in 1913 to exercise central banking functions, some of which are shared with the U.S. Treasury. It includes national banks and such State banks as voluntarily join the System. Statements of State bank members are consolidated by the Board of Governors of the Federal Reserve System with data for national banks collected by the Comptroller of the Currency into totals for all member banks of the System. Balance sheet data for member banks and other commercial banks are published quarterly in the *Federal Reserve Bulletin*.

The Federal Deposit Insurance Corporation (FDIC), established in 1933, insures each depositor up to \$100,000 currently in banks that are members of the Federal Reserve System and in such nonmember banks as join the insurance fund. A balance sheet for all banks in the country is published in the FDIC's *Annual Report*. Major item balance sheets for all commercial banks are published monthly in the *Federal Reserve Bulletin*.

Savings and loan and other credit agencies.—Savings and loan associations, insurance companies, finance companies dealing primarily in installment sales financing, credit unions, and personal loan companies represent important sources of funds for the credit market. Savings and loan associations are primarily involved in credit extension in the form of mortgage loans. Statistics on savings and loan associations are collected by the Federal Home Loan Bank Board. Statistics on loans, investments, cash, etc., of life insurance companies are published principally by the American Council of Life Insurance in its *Life Insurance Fact Book*. Consumer credit data are published currently in the *Federal Reserve Bulletin*.

Federally chartered credit unions are under the supervision of the National Credit Union Administration, established in 1970. State-chartered credit unions are supervised by the respective State supervisory authorities. The Administration publishes comprehensive program and statistical information on all Federal and federally insured State credit unions in the *Annual Report of the National Credit Union Administration*. Deposit insurance (up to \$100,000 per account) is provided to members of all Federal and those State credit unions that are federally-insured by the National Credit Union Share Insurance Fund which was established in 1970. Deposit insurance for State chartered credit unions is also available in some States under private or State-administered insurance programs.

Government corporations and credit agencies make available credit of specified types or to specified groups of private borrowers, either by lending directly or by insuring or guaranteeing loans made by private lending institutions. Data on operations of Government credit agencies, along with other Government corporations, are available in reports of individual agencies; data on their assets and liabilities are published in the *Treasury Bulletin*.

Currency.—Currency, including coin and paper money, represents more than one-fourth of all media of exchange in the United States, with most payments made by check. All currency is now issued by the Federal Reserve Banks.

"Currency and coin in circulation" (official *Statement of United States Currency and Coin*) refers to all coin and paper money issued by the Federal Reserve Banks, except gold and silver coin known to have been exported and, beginning with 1934, all gold coin. It includes all coin and paper money held by the public in the United States. It also includes cash in vaults of commercial and savings banks, currency irretrievably lost or destroyed by natural causes, and currency carried abroad by travelers.

Securities.—The Securities and Exchange Commission (SEC) was established in 1934 to protect the interests of the public and investors against malpractices in the securities and financial markets and to provide the fullest possible disclosure of information regarding securities to the investing public. Since its inception, the SEC has compiled a comprehensive monthly data series on new securities offerings. The statistics cover securities issued pursuant to the Securities Act of 1933 or exempted from registration pursuant to Regulation A or, Subsection 3(a)(2)—3(a)(6) of the Act and were publicly offered for cash sale for the account of the issuer, with maturity of more than one year. This series is published in the *SEC Monthly Statistical Review*.

Insurance.—Insuring companies, which are regulated by the various States or the District of Columbia, are classified as either life or property. Companies that underwrite accident and health insurance only and those that underwrite accident and health insurance in addition to one or more property lines are included with property insurance. Insuring companies, other than those classified as life, are permitted to underwrite one or more property lines provided they are so licensed and have the necessary capital or surplus.

There are a number of published sources for statistics on the various classes of insurance—life, health, fire, marine, and casualty. Individual States collect data on all insurers operating within their respective jurisdictions, and many of the States publish an annual insurance report giving individual company data and aggregates of certain items for the companies operating within the State. Organizations representing certain classes of insurers publish reports for these classes. Among them are the annual commercial publishers, such as The National Underwriter Company whose *Argus Chart* (annual) contains financial and operating data for individual health and accident insurance companies, including Blue Cross and Blue Shield Plans. The American Council of Life Insurance publishes statistics on life insurance purchases, ownership, benefit payments, and assets in its annual *Life Insurance Fact Book*.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

**NO. 808. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS AND LIABILITIES OF FINANCIAL AND
NONFINANCIAL INSTITUTIONS, BY SECTOR AND TYPE OF INSTRUMENT: 1983**

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities, SDR=Special drawing rights, IMF=International Monetary Fund. RPs=Repurchase Agreements. "N.e.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	TOTAL		PRIVATE DOMESTIC NONFINANCIAL INSTITUTIONS							
	A	L	Total		Households		Business		State and local govts.	
			A	L	A	L	A	L	A	L
Financial assets	14,231.4	(x)	7,645.9	(x)	6,042.4	(x)	1,304.3	(x)	299.2	(x)
Liabilities	(x) 12,129.4		(x) 4,707.4		(x) 1,923.0		(x) 2,367.9		(x) 416.6	
Gold stock and SDR's	78.0	-	-	-	-	-	-	-	-	-
IMF position	11.3	11.3	-	-	-	-	-	-	-	-
Official foreign exchange	6.3	6.3	-	-	-	-	-	-	-	-
Treasury currency	18.4	16.9	-	-	-	-	-	-	-	-
Checkable deposits and currency	531.4	573.8	447.5	-	338.7	-	103.3	-	5.5	-
Time and savings accounts	1,908.6	1,908.6	1,813.1	-	1,573.7	-	71.8	-	87.5	-
Fed. funds and security RPs	104.0	167.9	50.8	-	-	-	30.5	-	20.3	-
Money market fund shares	162.6	162.6	162.6	-	162.6	-	-	-	-	-
Foreign deposits	37.3	37.3	15.4	-	-	-	15.4	-	-	-
Life insurance reserves	262.6	262.6	262.6	-	262.6	-	-	-	-	-
Pension fund reserves	1,105.6	1,105.6	1,105.6	-	1,105.6	-	-	-	-	-
Interbank claims	-	-6.9	-	-	-	-	-	-	-	-
Corporate equities ¹	2,150.8	129.4	1,519.5	-	1,519.5	-	-	-	-	-
Credit market instruments ²	6,240.3	6,240.3	1,187.6	4,041.0	868.1	1,832.2	125.7	1,813.3	193.8	395.5
U.S. Treasury securities ³	1,174.4	1,174.4	434.3	-	329.3	-	11.8	-	93.3	-
Federal agency securities ⁴	455.3	455.3	137.9	-	95.7	-	1.8	-	40.3	-
State and local securities	468.6	468.6	172.6	468.6	180.0	-	4.2	89.8	8.4	384.7
Corporate and foreign bonds	589.2	589.2	58.6	421.0	58.6	-	-	421.0	-	-
Mortgages	1,818.4	1,818.4	235.1	1,816.1	184.3	1,238.4	-	577.7	51.8	-
Consumer credit	494.8	494.8	63.0	484.8	-	484.8	63.0	-	-	-
Bank loans, n.e.c.	585.1	585.1	-	499.4	-	32.3	-	467.1	-	-
Open-market paper	259.9	259.9	85.1	56.7	40.2	-	44.9	56.7	-	-
Security credit	91.0	91.0	19.3	47.8	19.3	47.8	-	-	-	-
Trade credit ⁵	619.4	520.9	545.9	486.4	-	26.5	545.9	438.9	-	21.0
Taxes payable	2.3	7.4	12.1	5.2	-	-	-	5.2	12.1	-
Miscellaneous claims	912.3	894.5	503.9	127.0	92.2	16.4	411.7	110.5	-	-
	U.S. GOVERNMENT		FINANCIAL INSTITUTIONS							
			Total ⁶		Monetary authority		Commercial banking		Nonbank finance	
	A	L	A	L	A	L	A	L	A	L
Financial assets	273.0	(x)	5,766.7	(x)	201.9	(x)	1,756.5	(x)	3,305.9	(x)
Liabilities	(x) 1,338.4		(x) 5,508.7		(x) 201.9		(x) 1,656.9		(x) 3,154.4	
Gold stock and SDR's	5.0	-	11.1	-	11.1	-	-	-	-	59.7
IMF position	11.4	-	(2)	-	(2)	-	-	-	-	11.3
Official foreign exchange	2.6	-	3.7	-	3.7	-	-	-	-	6.3
Treasury currency	-	16.9	18.4	-	18.4	-	-	-	-	-
Checkable deposits and currency	10.9	-	55.5	573.8	153.9	7.8	385.5	46.9	34.3	17.5
Time and savings accounts .....	.8	-	59.8	1,908.6	-	-	996.6	59.8	912.0	35.0
Fed. funds and security RPs	-	-	53.3	167.9	-	-	142.7	40.3	25.2	-
Money market fund shares	-	-	-	162.6	-	-	-	-	162.6	-
Foreign deposits	-	-	21.9	-	-	-	-	21.9	-	37.3
Life insurance reserves	-	9.6	-	253.0	-	-	-	-	253.0	-
Pension fund reserves	-	112.0	-	993.6	-	-	-	-	993.6	-
Interbank claims	-	-	44.6	-6.9	2.5	42.1	-49.1	-	-	-53.3
Corporate equities ¹	-	-	535.6	129.4	-	.1	-	535.5	129.4	95.6
Credit market instruments ²	213.2	1,177.9	4,589.6	775.7	161.2	1,566.8	68.6	2,381.0	250.1	249.9
U.S. Treasury securities ³	-	1,174.4	573.9	-	151.9	183.2	-	236.0	-	166.1
Federal agency securities ⁴	-	3.3	317.5	452.0	8.9	80.6	-	227.5	-	-
State and local securities	-	-	296.0	-	-	158.6	-	136.4	-	-
Corporate and foreign bonds	-	-	484.2	105.0	-	13.0	5.7	471.2	74.4	46.4
Mortgages	50.9	.2	1,531.5	2.2	-	329.7	-	820.1	2.2	-
Consumer credit	-	-	421.8	-	-	218.9	-	202.9	-	-
Bank loans, n.e.c.	-	-	565.1	30.3	-	565.1	-	-	30.3	35.3
Open-market paper	-	-	137.4	122.3	.4	16.7	38.0	119.5	84.3	37.4
Security credit	-	-	71.6	43.1	-	29.1	-	42.5	43.1	-
Trade credit ⁵	26.8	21.9	22.2	-	-	-	-	22.2	-	24.7
Taxes payable	-9.8	-	-	2.2	-	-	-	3	-	1.9
Miscellaneous claims	12.3	(2)	279.5	505.7	5.1	5.9	110.5	155.7	349.1	116.6

- Represents zero. X Not applicable. Z Less than \$50 million. ¹ Assets shown at market value; nonbank finance liability is redemption value of shares of open-end investment companies. No specific liability attributed to issuers of stocks other than open-end investment companies for amounts outstanding. ² Includes "Other loans," not shown separately. ³ Includes savings bonds and other nonmarketable debt held by public. ⁴ Issues by agencies in the budget and by sponsored credit agencies in financial sectors, issues backed by mortgage pools, and loan participation certificates. ⁵ Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables. ⁶ Includes federally sponsored credit agencies and mortgage pools, not shown separately.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

NO. 809. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY HOLDER SECTOR: 1970 TO 1983

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series X 192, X 229, X 821, and X 835]

SECTOR	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
All sectors.....	4,093.6	6,010.9	6,749.6	7,359.8	8,275.3	9,409.8	10,749.2	11,647.8	12,708.4	14,231.4
Households.....	1,926.3	2,564.3	2,905.3	3,081.7	3,375.9	3,861.2	4,540.5	4,838.8	5,384.4	6,042.4
Nonfinancial business.....	410.3	610.0	669.1	734.2	833.4	967.5	1,079.7	1,150.3	1,173.6	1,304.3
Farm.....	10.8	14.8	16.3	18.1	20.2	22.2	24.2	26.1	27.9	29.3
Nonfarm noncorporate.....	29.9	37.5	40.8	44.4	48.8	53.6	58.6	61.4	65.2	71.0
Nonfinancial corporations.....	369.6	557.6	611.9	671.7	764.4	891.6	998.8	1,062.8	1,080.6	1,203.9
U.S. Government.....	88.2	120.2	141.6	150.3	175.5	198.2	223.3	246.7	267.3	273.0
U.S. Government-sponsored credit agencies and mortgage pools.....	51.5	122.1	138.7	162.9	205.0	260.6	309.3	361.8	433.8	502.4
State and local government.....	71.7	122.6	133.6	156.6	179.7	198.6	216.1	228.2	256.3	299.2
Monetary authorities.....	86.1	124.6	134.5	143.0	156.2	166.7	173.8	182.0	193.2	201.9
Commercial banking ¹	504.9	834.6	906.0	1,003.5	1,147.7	1,277.4	1,390.5	1,525.0	1,608.1	1,756.5
Domestic commercial banks.....	488.9	786.3	845.9	936.9	1,056.9	1,164.3	1,248.9	1,356.5	1,465.3	1,603.4
Foreign banking offices in U.S.....	9.3	29.2	34.5	40.2	62.0	78.5	101.2	117.3	87.3	89.7
Nonbank finance.....	822.9	1,277.7	1,458.0	1,629.5	1,842.6	2,079.0	2,366.9	2,634.1	2,921.6	3,305.9
Savings and loan assoc.....	173.1	333.1	385.1	449.3	512.8	589.4	621.9	657.8	705.0	821.7
Life insurance.....	200.9	279.7	311.1	339.8	378.3	419.6	464.2	507.5	567.5	636.5
Other insurance.....	49.9	77.3	93.9	113.2	133.9	154.9	174.3	185.5	204.5	228.1
Private pension funds.....	110.4	146.8	171.9	178.3	198.3	222.0	266.8	293.1	341.6	409.3
Govt. retirement funds ²	60.3	104.8	120.4	132.5	153.9	169.7	198.1	224.2	264.2	313.7
Finance companies.....	64.0	98.8	110.7	133.4	157.5	184.8	198.7	224.9	229.6	252.7
Money market funds.....	-	3.7	3.7	3.9	10.8	45.2	74.4	181.9	206.6	182.6
Mutual savings banks.....	79.3	121.1	134.8	147.3	158.2	163.3	171.5	175.3	174.3	191.5
Investment companies.....	46.8	43.0	46.5	45.4	45.8	51.2	63.5	63.8	89.5	129.4
Credit unions.....	18.0	36.9	43.3	51.5	58.4	63.1	71.6	75.1	86.8	103.1
Security brokers, dealers.....	16.2	18.5	26.8	27.7	27.9	29.1	36.1	39.0	43.3	49.4
Real estate investment trusts.....	3.9	14.0	9.8	7.2	6.8	6.7	5.8	5.9	7.7	7.9
Rest of the world.....	131.7	234.7	262.8	298.1	359.3	400.6	448.0	480.9	470.1	545.8

- Represents zero. ¹ Includes other sectors not shown separately. ² State and local.

NO. 810. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF HOUSEHOLDS: 1970 TO 1983

[As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 114-147]

TYPE OF INSTRUMENT	TOTAL (bil. dol.)							PERCENT DISTRIBUTION		
	1970	1975	1979	1980	1981	1982	1983	1970	1980	1983
Total financial assets.....	1,926.3	2,564.3	3,861.2	4,540.5	4,838.8	5,384.4	6,042.4	100.0	100.0	100.0
Deposit and market instrument ¹	797.1	1,326.5	2,060.1	2,281.7	2,556.0	2,781.3	3,043.1	41.4	50.3	50.4
Checkable deposits and currency.....	118.2	170.7	250.4	258.6	284.3	307.3	338.7	6.1	5.7	5.6
Small time and savings deposits.....	408.9	719.6	1,056.9	1,140.3	1,187.4	1,322.9	1,532.2	21.2	25.1	25.4
Money market fund shares.....	-	3.7	45.2	74.4	181.9	206.6	162.8	-	1.6	2.7
Large time deposits.....	17.4	51.3	106.8	148.9	168.1	145.9	141.5	.9	3.3	2.3
Credit market instruments.....	252.6	381.2	600.8	659.4	734.2	798.6	868.1	13.1	14.5	14.4
U.S. Government securities.....	105.8	152.9	264.7	297.3	346.2	377.0	425.0	5.5	6.5	7.0
Treasury issues.....	84.9	133.2	206.3	227.8	261.9	291.8	329.3	4.4	5.0	5.4
Savings bonds.....	52.1	67.4	79.9	72.5	68.2	68.3	71.5	2.7	1.6	1.2
Other Treasury.....	32.8	65.8	126.4	155.3	193.7	223.4	257.8	1.7	3.4	4.3
Agency issues.....	20.9	19.7	58.5	69.5	84.3	85.2	95.7	1.1	1.5	1.6
State and local obligations.....	46.0	88.1	83.2	89.9	99.9	129.0	160.0	2.4	2.0	2.6
Corporate and foreign bonds.....	36.2	69.0	81.6	82.2	73.5	64.5	58.6	1.9	1.8	1.0
Mortgages.....	52.9	76.2	125.9	148.1	171.2	186.5	184.3	2.7	3.3	3.1
Open-market paper.....	11.7	15.1	45.3	41.9	43.6	41.6	40.2	.6	.9	.7
Corporate equities.....	728.6	680.5	915.2	1,221.9	1,162.7	1,322.3	1,519.5	37.8	26.9	25.1
Mutual fund shares.....	46.8	43.0	51.2	69.5	83.8	89.5	129.4	2.4	1.4	2.1
Other corporate equities.....	681.8	617.5	864.0	1,152.4	1,098.9	1,232.9	1,390.1	35.4	25.5	23.0
Life insurance reserves.....	130.5	166.6	211.1	222.5	232.7	246.8	262.6	6.8	4.9	4.3
Pension fund reserves.....	239.4	365.7	598.6	727.1	795.2	832.6	1,105.6	12.4	16.0	18.3
Security credit.....	4.4	4.5	9.6	14.8	12.7	16.0	19.3	.2	.3	.3
Miscellaneous assets.....	26.3	40.6	66.7	72.4	78.5	85.3	92.2	1.4	1.6	1.5
Total liabilities.....	501.9	805.3	1,396.2	1,526.1	1,654.3	1,740.9	1,923.0	100.0	100.0	100.0
Credit market instruments.....	481.0	776.1	1,348.9	1,488.8	1,594.2	1,674.4	1,832.2	95.8	98.2	95.3
Mortgages.....	309.4	507.7	898.8	999.0	1,084.9	1,137.4	1,238.4	61.6	65.5	64.4
Installment consumer credit.....	105.5	172.3	312.0	313.5	331.7	344.8	387.9	21.0	20.5	20.2
Other consumer credit.....	37.6	50.9	71.3	74.8	80.7	85.9	98.9	7.5	4.9	5.0
Bank loans, not elsewhere classified.....	7.5	13.7	20.8	26.8	31.2	33.3	32.3	1.5	1.8	1.7
Other loans.....	20.9	31.5	45.9	54.7	65.8	73.0	76.7	4.2	3.6	4.0
Security credit.....	10.4	12.1	20.7	27.2	25.6	28.8	47.8	2.1	1.8	2.5
Trade credit.....	5.3	9.4	14.9	17.2	19.8	22.2	26.5	1.1	1.1	1.4
Unpaid life insurance premiums ²	5.1	7.7	11.7	12.9	14.7	15.5	16.4	1.0	.8	.9

- Represents zero. ¹ Excludes corporate equities. ² Includes deferred premiums.

Source of tables 809 and 810: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

NO. 811. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF PRIVATE NONBANK FINANCIAL INSTITUTIONS, BY TYPE OF INSTRUMENT: 1983

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities; "N.e.c."=Not elsewhere classified; RP's=Repurchase agreements]

TYPE OF INSTRUMENT	TOTAL ¹		MUTUAL SAVINGS BANKS		SAVINGS AND LOAN ASSOCIATIONS		INSURANCE COMPANIES		PENSION FUNDS ²		FINANCE COMPANIES		MONEY MARKET FUNDS	
	A	L	A	L	A	L	A	L	A	L	A	L	A	L
Financial assets.....	3,305.9	(x)	191.5	(x)	821.7	(x)	864.6	(x)	723.0	(x)	252.7	(x)	162.6	(x)
Liabilities.....	(x)	3,154.4	(x)	180.4	(x)	794.7	(x)	759.6	(x)	723.0	(x)	256.2	(x)	162.6
Checkable deposits.....	46.9	34.3	4.3	7.7	9.1	19.6	13.2	-	8.2	-	5.0	-	-3	-
Time and savings accounts.....	59.8	912.0	1.1	164.6	15.2	658.2	-	-	7.0	-	-	-	24.0	-
Fed. funds, security RP's.....	40.3	25.2	6.2	-	21.1	25.2	-	-	-	-	-	-	13.0	-
Money market fund shares.....	-	162.6	-	-	-	-	-	-	-	-	-	-	-	162.6
Foreign deposits.....	21.9	-	-	-	-	-	-	-	-	-	-	-	21.9	-
Reserves:														
Life insurance.....	-	253.0	-	-	-	-	253.0	-	-	-	-	-	-	-
Pension fund.....	-	993.6	-	-	-	-	270.6	-	723.0	-	-	-	-	-
Corporate equities.....	535.5	129.4	4.2	-	-	113.2	-	338.9	-	-	-	-	-	-
Credit market instruments.....	2,381.0	250.1	166.6	-	696.4	71.6	663.8	-	361.6	-	247.7	172.0	102.4	-
Securities:														
U.S. Treasury.....	236.0	-	9.8	-	27.9	-	46.0	-	94.6	-	-	-	36.2	-
Federal agency.....	227.5	-	23.2	-	102.3	-	36.4	-	59.5	-	-	-	-	-
State and local.....	136.4	-	2.2	-	.9	-	98.9	-	3.0	-	-	-	-	-
Corporate and foreign bonds.....	471.2	74.4	21.7	-	-	3.5	246.7	-	184.8	-	-	70.3	-	-
Mortgages.....	820.1	2.2	96.0	-	526.3	-	152.0	-	19.8	-	17.8	-	-	-
Consumer credit.....	202.9	-	6.0	-	26.6	-	-	-	-	-	116.9	-	-	-
Bank loans, n.e.c.....	-	30.3	-	-	-	9.2	-	-	-	-	-	17.7	-	-
Open market paper.....	119.5	84.3	7.8	-	12.5	-	29.3	-	-	-	-	84.0	66.2	-
Other loans.....	167.5	59.0	-	-	-	59.0	54.5	-	-	-	113.0	-	-	-
Security credit.....	42.5	43.1	-	-	-	-	-	-	-	-	-	-	-	-
Trade credit.....	22.2	-	-	-	-	-	22.2	-	-	-	-	-	-	-
Taxes payable.....	-	1.9	-	-	-	-	.1	-	.8	-	-	-	-	-
Miscellaneous.....	155.7	349.1	9.1	8.1	79.9	19.8	52.1	235.2	7.4	-	-	64.1	1.5	-

- Represents zero or rounds to zero. X Not applicable. ¹ Includes credit unions, open-end investment companies, real estate investment trusts, and security brokers and dealers not shown separately. ² Retirement funds of State and local governments and private pension plans.

NO. 812. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET DEBT OUTSTANDING: 1970 TO 1983

[In billions of dollars. As of Dec. 31. "N.e.c."=Not elsewhere classified]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Credit market debt.....	1,597.0	2,619.9	2,804.3	3,285.0	3,761.6	4,252.0	4,685.1	5,174.8	5,623.3	6,240.3
Government.....	450.0	669.2	753.9	826.1	888.9	956.6	1,056.3	1,153.4	1,350.9	1,573.6
Federal.....	300.6	446.3	515.8	572.5	628.2	663.6	742.8	830.1	991.4	1,177.9
State and local.....	149.2	222.9	238.2	253.6	272.7	293.2	313.6	323.2	359.6	395.5
Non-government.....	1,147.0	1,950.7	2,150.3	2,458.9	2,862.7	3,295.2	3,628.7	4,021.5	4,272.4	4,666.8
Financial ¹	114.1	239.9	261.1	307.1	381.6	485.3	528.6	614.0	686.8	775.7
Sponsored credit agencies ²	39.9	80.3	82.4	88.7	122.2	137.0	162.6	195.0	210.4	212.0
Mortgage pools.....	4.8	28.5	40.7	56.8	70.4	94.8	114.0	129.0	178.5	245.0
Commercial banks ³	5.5	19.5	25.8	28.1	35.4	42.1	49.2	57.4	60.1	66.6
Savings and loan associations.....	11.0	19.1	17.4	24.3	37.8	50.3	57.8	73.4	70.4	71.6
Finance companies.....	51.7	76.7	81.2	97.9	116.2	132.7	138.9	152.9	161.1	172.0
Foreign.....	50.6	91.2	110.6	123.9	161.9	182.5	209.6	237.0	226.4	245.6
Private domestic nonfinancial.....	982.3	1,819.6	1,778.7	2,028.0	2,319.2	2,647.4	2,890.5	3,170.5	3,359.2	3,645.5
Corporations ³	355.0	548.5	591.5	662.6	741.1	836.5	912.0	1,010.8	1,086.4	1,143.3
Bonds.....	167.3	261.0	286.3	317.4	346.2	373.5	411.0	446.5	480.5	504.9
Mortgages.....	58.9	65.9	68.3	71.9	76.1	77.5	80.0	73.7	78.7	79.7
Bank loans, n.e.c.....	104.2	172.4	176.3	197.0	227.4	272.6	299.2	341.9	383.0	400.1
Finance company loans.....	14.0	31.9	40.3	53.8	65.3	75.4	78.5	87.2	86.7	100.5
Individuals.....	627.3	1,071.1	1,187.2	1,365.3	1,578.1	1,811.0	1,978.6	2,159.7	2,272.8	2,502.2
By sector:										
Households.....	481.0	778.1	866.5	1,004.1	1,171.9	1,348.9	1,468.8	1,594.2	1,674.4	1,832.2
Farm.....	46.9	83.2	93.4	105.6	120.3	141.6	156.0	172.3	181.3	183.8
Nonfarm noncorporate.....	99.4	211.9	227.3	255.6	286.0	320.4	353.7	393.2	417.1	466.2
By type of instrument:										
Mortgages.....	409.2	731.7	814.4	937.5	1,083.5	1,247.4	1,380.0	1,500.8	1,572.2	1,736.4
Consumer credit.....	143.1	223.2	248.8	289.1	337.9	383.4	388.2	412.4	430.7	484.8
Policy loans.....	17.0	25.5	26.9	28.6	31.2	35.9	42.6	50.0	54.2	55.7
Bank loans, n.e.c.....	29.9	45.3	45.7	51.9	57.1	61.3	71.3	83.1	95.7	99.3
Other loans.....	28.0	45.4	51.6	58.2	66.4	82.9	96.3	113.6	120.0	125.9

¹ Includes other types, not shown separately. ² U.S. Government. ³ Includes bank affiliates.

Source of tables 811 and 812: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

No. 813. USES AND SOURCES OF FUNDS—SUMMARY: 1970 TO 1983

[In billions of dollars. Minus sign (–) denotes decline in holdings of source. – Represents zero]

USE AND SOURCE	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Uses, funds raised	95.1	201.4	264.7	337.4	390.2	400.1	374.1	377.6	397.0	527.2
Investment funds	69.6	119.8	142.0	184.9	219.3	230.4	221.0	184.1	191.3	255.1
Short-term funds	18.6	3.5	63.2	100.9	124.1	139.7	77.4	115.5	52.4	96.5
U.S. securities, privately held	6.9	78.1	59.4	51.5	45.8	29.9	75.7	78.0	153.3	175.6
Less: Financial intermediaries, funds raised	12.4	5.8	15.5	28.8	47.6	50.3	37.4	57.3	21.1	33.3
Sources, gross funds supplied	107.6	207.2	280.1	368.2	437.8	450.3	411.5	434.9	418.1	566.8
Commercial banks	37.1	31.5	66.5	90.0	126.2	122.2	101.8	108.8	108.5	140.0
Insurance companies	13.0	25.1	39.2	48.7	53.0	51.2	48.4	50.8	58.5	65.4
Private noninsured pension funds	7.7	14.1	12.5	16.5	16.0	16.0	20.3	21.1	26.5	31.7
State and local government retirement funds	6.1	11.5	12.4	13.9	14.3	19.4	23.4	24.3	26.8	31.5
Savings and loan associations	12.7	36.2	51.8	61.3	56.7	51.5	42.1	24.1	15.4	97.1
Mutual savings banks	4.1	10.9	12.5	11.6	8.4	4.7	5.3	–2	–	15.8
Credit unions	1.8	5.0	6.6	8.2	8.3	2.4	–1.1	1.1	3.8	9.2
Investment companies	1.9	3.1	1.4	3.4	5.2	22.4	22.5	73.0	50.6	24.6
Other financial intermediaries	3.7	–	10.5	20.7	22.4	21.7	13.9	21.7	5.8	15.3
Business	4.1	12.9	18.1	15.4	11.0	26.7	7.6	5.9	11.6	30.5
Government	10.7	21.4	14.9	13.8	28.4	34.1	39.4	28.1	39.6	38.7
Foreign investors	10.5	10.4	17.9	42.2	40.4	–3.1	28.2	21.9	21.5	21.9
Individuals and others	–5.6	25.2	15.7	20.6	47.4	81.2	59.6	51.3	49.6	39.1

Source: Beverly Lowen and Donald Woolley, *Credit and Capital Markets*, 1984, Bankers Trust Company, New York, NY.

No. 814. OWNERSHIP OF PUBLIC DEBT SECURITIES BY PRIVATE INVESTORS: 1970 TO 1983

[Par values in billions of dollars. As of June, except beginning 1977, as of September. Estimated]

OWNERSHIP	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total privately held	217.2	303.2	376.4	438.6	488.3	523.4	589.2	665.4	791.2	982.7
Commercial banks ¹	52.6	69.0	91.4	99.8	96.3	92.5	109.7	112.7	117.8	176.3
Nonbank investors	164.7	234.1	285.0	338.8	392.0	430.9	479.5	552.7	673.4	806.4
Individuals ²	81.8	66.8	96.1	103.9	109.4	115.5	123.0	109.7	115.6	128.9
Insurance companies	7.2	7.1	14.4	14.3	15.1	16.7	19.2	27.6	34.8	47.3
Money market funds	(NA)	(NA)	.8	.8	1.4	4.3	7.5	11.4	38.6	22.1
Corporations ³	8.5	13.8	23.3	23.3	21.3	22.1	25.9	18.0	21.6	35.9
State and local governments	29.0	31.7	33.3	53.0	68.0	66.5	77.0	95.7	112.1	(NA)
Foreign and international ⁴	14.0	66.0	69.8	95.5	121.0	125.1	126.4	130.7	140.6	160.1
Other investors ⁵	21.0	25.2	47.2	48.0	54.9	80.7	100.5	159.6	210.1	(NA)
Percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Commercial banks ¹	24.2	22.8	24.3	23.0	19.7	17.7	18.6	16.9	14.9	17.9
Nonbank investors	75.8	77.2	75.7	77.2	80.3	82.3	81.4	83.1	85.1	82.1
Individuals ²	37.7	28.6	25.5	23.7	22.4	22.1	20.9	16.5	14.6	13.1
Insurance companies	3.3	2.3	3.8	3.3	3.1	3.2	3.3	4.1	4.4	4.8
Money market funds	(NA)	(NA)	.2	.2	.3	.8	1.3	1.7	4.9	2.2
Corporations ³	3.9	4.6	6.2	5.3	4.4	4.2	4.4	2.7	2.7	3.7
State and local governments	13.4	10.5	8.8	12.1	14.1	12.7	13.1	14.4	14.2	(NA)
Foreign and international ⁴	6.4	21.8	18.5	21.8	24.8	23.9	21.4	19.6	17.8	16.3
Other investors ⁵	9.7	8.3	12.5	10.9	11.2	15.4	17.1	24.0	26.6	(NA)

NA Not available. ¹ Consists of commercial banks, trust companies, and stock savings banks in the United States and in territories and island possessions. Figures exclude securities held in trust departments. ² Includes partnerships and personal trust accounts. ³ Exclusive of banks and insurance companies. ⁴ Consists of the investment of foreign balances and international accounts in the United States. Holdings have been adjusted to exclude issues to the International Monetary Fund and other international lending organizations to reflect the unified budget concept. ⁵ Consists of savings and loan associations, nonprofit institutions, money market funds (for 1970 and 1975), corporate pension trust funds and dealers and brokers. Also included are certain government deposit accounts, government-sponsored agencies, and all other investors not included above.

Source: U.S. Dept. of the Treasury, *Treasury Bulletin*, monthly through 1982; thereafter, quarterly.

No. 815. FEDERAL RESERVE BANKS—ASSETS, LIABILITIES, AND CAPITAL ACCOUNTS: 1970 TO 1983

[In billions of dollars. As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 796–805]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Assets	85.9	110.8	120.4	129.3	137.8	151.1	160.8	188.5	174.8	186.9	196.7
U.S. Government securities ¹	62.1	85.7	94.1	104.1	111.3	118.6	126.2	130.6	140.4	148.8	160.8
Gold certificate reserves	10.5	11.7	11.8	11.8	11.7	11.7	11.1	11.2	11.2	11.2	11.1
Special drawing rights .....	.4	.4	.5	1.2	1.3	1.3	1.3	2.5	3.3	4.6	4.6
Coin and collection items	11.4	8.6	9.2	8.2	9.9	13.2	14.0	12.9	8.9	10.3	10.1
Loans and acceptances .....	.4	1.3	1.4	1.0	1.2	1.8	2.1	2.6	1.8	2.2	1.3
Other assets	1.1	3.2	3.3	3.2	2.4	4.5	5.6	8.7	9.2	6.9	8.8
Liabilities and capital accounts	85.9	110.8	120.4	129.3	137.8	151.1	160.8	188.5	174.8	186.9	196.7
Federal Reserve notes	50.3	70.9	77.2	83.7	93.2	103.3	113.3	124.2	131.9	142.0	157.1
Deposits	28.7	30.6	34.8	37.3	35.6	37.0	35.7	31.5	30.8	32.9	26.1
Deferred availability cash items	6.9	6.3	5.5	5.2	5.8	6.5	6.8	8.1	6.8	7.0	8.1
Other, and accrued dividends .....	.6	1.1	1.1	1.1	1.2	2.1	2.7	2.3	2.7	2.3	2.5
Capital accounts	1.4	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.6	2.7	2.9

¹ Includes securities loaned, fully secured by U.S. Government securities pledged with Federal Reserve banks.² Excludes securities sold and scheduled to be bought back under matched sale-purchase transactions.Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 816. FEDERAL RESERVE MEMBER BANKS—REVENUE AND EXPENSES: 1970 TO 1983

[Includes one member bank in the Virgin Islands]

ITEM	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Member banks.....	Number.....	5,769	5,782	5,790	5,760	5,689	5,564	5,425	5,422	5,474	5,619	5,805
Current revenue.....	Bil. dol.....	27.9	53.8	51.4	63.6	70.5	89.1	118.9	150.5	186.6	202.3	185.8
Expenses.....	Bil. dol.....	22.2	46.8	44.4	55.9	61.7	77.8	105.8	136.5	181.9	188.4	171.8
Net current earnings.....	Bil. dol.....	5.7	7.0	7.0	7.7	8.8	11.3	13.1	14.2	14.7	13.9	14.0
Net income.....	Bil. dol.....	3.8	5.4	5.5	5.9	6.6	7.8	9.2	9.9	10.6	10.7	10.8
Cash dividends declared.....	Bil. dol.....	1.8	2.3	2.5	2.5	2.6	2.9	3.5	3.9	4.4	4.9	5.5
Capital accounts ¹	Bil. dol.....	33.0	46.2	50.0	50.6	56.6	61.5	67.1	73.7	80.9	88.7	96.7
Ratios to avg. capital accounts:												
Net current earnings.....	Percent.....	17.4	15.2	13.9	15.2	15.6	18.4	19.5	19.2	18.2	15.7	14.5
Net income.....	Percent.....	11.8	11.6	11.1	11.5	11.7	12.8	13.7	13.4	13.1	12.1	11.2
Cash dividends declared.....	Percent.....	5.3	4.9	5.0	4.8	4.8	4.8	5.2	5.3	5.5	5.5	5.7

¹ Averages of amounts reported for varying call dates; for details, see source.Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 817. SELECTED FINANCIAL INSTITUTIONS—NUMBER AND ASSETS, BY TYPE OF INSTITUTION AND ASSET SIZE: 1983

[As of December]

ASSET SIZE	Unit	Insured commercial banks ^{1 2}	Savings and loan associations ³	Mutual savings banks ^{1 4}	Credit unions ⁵	PERCENT DISTRIBUTION			
						Insured commercial banks ^{1 2}	Savings and loan associations ³	Mutual savings banks ^{1 4}	Credit unions
NUMBER OF INSTITUTIONS									
Total.....	Number	14,473	3,513	393	15,877	100.0	100.0	100.0	100.0
Less than \$250,000.....	Number	356	{ 75 }	{ 26 }	{ 3,495 }	2.5	{ 2.1 }	{ 6.6 }	{ 22.0 }
\$250,000-\$999,000.....	Number								
\$1.0 million-\$4.9 million.....	Number	1,302	140	1	4,744	9.0	4.0	.3	7.7
\$5.0 million-\$9.9 million.....	Number								
\$10.0 million-\$24.9 million.....	Number	4,162	540	8	964	28.8	15.4	2.0	6.1
\$25.0 million-\$49.9 million.....	Number	3,747	640	19	383	25.9	18.2	4.8	2.4
\$50.0 million-\$99.9 million.....	Number	2,623	686	83	197	18.1	19.5	21.1	1.3
\$100.0 million-\$499.9 million.....	Number	1,836	999	184	86	12.7	28.5	46.8	.5
\$500.0 million or more.....	Number	447	288	72	4	3.1	8.2	18.3	(z)
ASSETS									
Total.....	Bil. dol.....	2,027.3	771.7	179.5	82.0	100.0	100.0	100.0	100.0
Less than \$250,000.....	Bil. dol.....	1.2	{ (z) }	{ (z) }	{ .5 }	.1	{ (z) }	{ (z) }	{ .6 }
\$250,000-\$999,000.....	Bil. dol.....								
\$1.0 million-\$4.9 million.....	Bil. dol.....	10.0	.4	{ (z) }	11.1	.5	{ (z) }	{ (z) }	13.5
\$5.0 million-\$9.9 million.....	Bil. dol.....								
\$10.0 million-\$24.9 million.....	Bil. dol.....	70.9	9.5	.1	14.7	3.5	1.2	.1	17.9
\$25.0 million-\$49.9 million.....	Bil. dol.....	134.1	23.5	.7	13.4	6.6	3.0	.4	16.4
\$50.0 million-\$99.9 million.....	Bil. dol.....	181.0	48.9	6.1	13.8	8.9	6.3	3.4	16.6
\$100.0 million-\$499.9 million.....	Bil. dol.....	347.6	212.5	41.6	14.1	17.1	27.6	23.2	17.2
\$500.0 million or more.....	Bil. dol.....	1,282.5	475.8	130.9	3.3	63.3	61.7	72.9	4.0

Z Less than \$50 million or less than .05 percent.

¹ Source: U.S. Federal Deposit Insurance Corporation, *Statistics on Banking*, annual.² Assets data cover domestic assets only.³ Source: U.S. League of Savings Institutions, Washington, DC, *The Savings and Loan Source Book*, annual.⁴ Excludes federally chartered mutual savings banks.⁵ Source: National Credit Union Administration, *National Credit Union Administration Yearend Statistics 1983*. Excludes nonfederally insured State chartered credit unions and federally insured corporate credit unions.

Source: Compiled from sources listed in footnotes.

No. 818. DOMESTIC DEPOSIT MARKET SHARES BY TYPE OF INSTITUTION—STATES: 1983

[As of Dec. 31, except savings and loan associations, as of Sept. 30]

REGION, DIVISION, AND STATE	Total (mil. dol.)	PERCENT DISTRIBUTION				DIVISION AND STATE	Total (mil. dol.)	PERCENT DISTRIBUTION			
		F.D.I.C.—insured commercial banks ¹	F.S.L.I.C.—insured savings and loan assns. ²	Mutual savings banks ³	Credit unions ⁴			F.D.I.C.—insured commercial banks ¹	F.S.L.I.C.—insured savings and loan assns. ²	Mutual savings banks ³	Credit unions ⁴
U.S.....	2,434,589	62.7	26.5	7.1	3.7	DE.....	8,881	83.2	2.8	11.8	2.2
Region:						MD.....	29,791	57.8	29.3	7.0	6.1
North:						DC.....	12,830	66.1	26.8	-	7.0
east.....	660,426	57.8	14.9	24.9	2.5	VA.....	41,886	64.7	26.5	-	8.8
Midwest.....	584,621	67.4	28.9	.1	3.7	WV.....	12,851	82.9	13.9	-	3.2
South.....	694,660	66.8	28.7	.5	4.1	NC.....	38,128	65.8	29.7	-	4.5
West.....	494,885	58.1	36.0	1.0	4.9	SC.....	16,870	55.6	39.3	-	5.0
N.E.....	133,097	47.3	8.9	38.8	5.1	GA.....	38,768	66.3	29.3	-	4.4
ME.....	8,000	44.4	8.6	39.3	7.8	FL.....	117,222	49.4	47.4	-	3.2
NH.....	8,888	46.6	15.1	34.0	4.2	E.S.C.....	101,924	74.2	21.6	-	4.2
VT.....	4,168	70.1	6.0	20.4	3.5	KY.....	27,370	75.0	22.5	-	2.4
MA.....	63,088	49.0	6.4	39.4	5.2	TN.....	34,438	72.4	22.5	-	5.1
RI.....	9,970	62.3	7.7	21.7	8.3	AL.....	24,406	72.5	21.2	-	6.3
CT.....	39,063	38.9	12.1	45.1	3.8	MS.....	15,710	79.3	18.4	-	2.3
M.A.....	527,329	60.4	16.4	21.4	1.8	W.S.C.....	275,492	72.4	24.3	-	3.3
NY.....	326,007	61.4	10.3	27.0	1.4	AR.....	18,431	68.9	29.9	-	1.2
NJ.....	79,822	49.5	35.8	12.7	1.9	LA.....	38,965	71.4	26.1	-	2.6
PA.....	121,500	65.0	20.2	12.1	2.8	OK.....	33,850	76.2	19.7	-	4.1
E.N.C.....	398,556	65.5	30.4	.1	3.9	TX.....	184,246	72.3	24.2	-	3.6
OH.....	91,723	56.8	39.9	-	3.3	Mt.....	100,420	66.8	27.1	-	6.3
IN.....	45,830	72.1	22.1	.7	5.1	MT.....	7,354	77.7	17.0	-	5.3
IL.....	146,937	67.1	30.5	-	2.4	ID.....	6,719	77.6	17.2	-	5.1
MI.....	72,729	69.3	24.1	-	6.6	WY.....	4,986	76.0	21.1	-	2.9
WI.....	41,337	65.4	29.4	.2	4.9	CO.....	29,742	60.0	33.6	-	6.4
W.N.C.....	186,065	71.3	25.5	-	3.2	NM.....	10,645	68.1	26.6	-	5.3
MN.....	42,128	74.2	22.4	-	3.4	AZ.....	24,027	65.9	28.9	-	5.2
IA.....	30,961	74.7	22.0	-	3.3	UT.....	10,056	71.0	16.4	-	12.6
MO.....	51,530	66.9	29.7	-	3.4	NV.....	6,891	59.2	34.1	-	6.6
ND.....	8,009	68.8	27.5	-	3.7	Pac.....	394,465	56.0	38.3	1.2	4.5
SD.....	9,207	85.7	12.6	-	1.8	WA.....	36,324	58.6	24.9	12.5	6.1
NE.....	17,568	70.3	27.0	-	2.7	OR.....	20,599	58.9	34.7	.9	5.5
KS.....	26,662	67.6	29.2	-	3.1	CA.....	322,280	55.4	40.7	-	3.9
S.A.....	317,244	59.5	34.7	1.0	4.7	AK.....	4,386	72.2	9.0	1.7	17.1
						HI.....	10,866	57.5	32.5	-	9.9

- Represents zero. ¹ Source: U.S. Federal Deposit Insurance Corporation (F.D.I.C.), unpublished data. ² Source: U.S. Federal Home Loan Bank Board, *Summary of Savings Accounts by Geographic Areas*, annual. F.S.L.I.C.—Federal Savings and Loan Insurance Corporation. ³ Source: National Council of Savings Institutions, Washington, DC, *1984 Fact Book of National Council of Savings Institutions*. ⁴ Source: Credit Union National Association, Inc., Madison, WI, *Credit Union Report*, annual. Preliminary estimates based on projections from 15,000 reporting credit unions.

Source: Compiled from sources listed in footnotes.

No. 819. BANKING OFFICES, BY DEPOSIT INSURANCE STATUS: 1970 TO 1983

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1982 excludes automatic teller machines that were previously being reported by many banks as branches. See also *Historical Statistics, Colonial Times to 1970*, series X 718-724.]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
All banking offices.....	37,166	47,239	48,653	50,695	52,606	54,926	57,232	59,348	57,913	59,080
Commercial banks, total.....	35,585	44,917	46,100	47,914	49,602	51,588	53,649	55,749	54,829	55,980
Member, Federal Reserve System.....	21,989	26,526	27,154	27,904	28,456	29,163	29,985	31,414	30,921	31,946
National banks.....	17,191	21,073	21,459	22,294	22,731	23,307	24,217	25,221	24,867	26,080
State banks.....	4,798	5,453	5,695	5,610	5,725	5,856	5,768	6,193	6,054	5,866
Nonmember banks.....	13,596	18,391	18,946	20,010	21,146	22,425	23,664	24,335	23,908	24,014
Insured.....	13,332	18,043	18,578	19,619	20,730	21,993	23,186	23,788	23,314	23,380
Noninsured.....	264	348	368	391	416	432	478	547	594	634
Mutual savings banks, total.....	1,581	2,322	2,553	2,781	3,006	3,338	3,593	3,599	3,084	3,090
Insured.....	1,223	1,897	2,125	2,302	2,517	2,840	3,066	3,217	2,733	2,700
Noninsured.....	358	425	428	479	489	498	517	382	351	390

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 820. CHANGES IN NUMBER OF OPERATING BANKING OFFICES: 1970 TO 1983

[As of December 31. Includes Puerto Rico and outlying areas. Minus sign (—) indicates decrease]

TYPE OF CHANGE	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Banking offices ¹	37,166	47,239	48,653	50,695	52,608	54,926	57,232	59,348	57,913	59,050
Number of banks	14,199	15,130	15,170	15,207	15,206	15,201	15,330	15,355	15,412	15,440
Number of branches ¹	22,967	32,109	33,483	35,488	37,402	39,725	41,902	43,993	42,501	43,610
Net change during year	1,584	1,931	1,414	2,041	1,909	2,318	2,306	2,116	-1,435	1,137
Offices opened	1,864	2,224	1,919	2,524	2,426	2,891	2,800	2,901	2,387	2,119
Banks	186	277	193	206	184	239	271	265	379	432
Branches	1,678	1,947	1,626	2,318	2,242	2,652	2,529	2,636	2,008	1,687
Offices closed	280	293	405	483	517	573	494	785	3,822	982
Banks	165	108	153	169	185	244	142	240	322	404
Branches	115	185	252	314	332	329	352	545	* 3,500	578

¹ See headnote, table 819. * Includes 3,000 automatic teller machines that were previously reported as branches. Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 821. CHANGES IN COMMERCIAL BANKING STRUCTURE: 1953 TO 1983

[Minus sign (—) indicates decrease]

CHANGE	1953-1983	1971 and 1972	1973 and 1974	1975 and 1976	1977 and 1978	1979 and 1980	1981 and 1982	1983
All commercial banks:								
Number of banks, beginning of period	14,074	13,896	13,927	14,458	14,671	14,711	14,836	14,960
New banks organized	6,154	472	752	464	380	500	643	374
Mergers and absorptions	-4,829	-218	-214	-234	-330	-306	-505	-300
Voluntary liquidations, suspensions	-267	-13	-7	-17	-10	-69	-14	-2
Number of banks, end of period	15,032	13,927	14,456	14,671	14,711	14,836	14,960	15,032
Net change in banks	958	241	531	213	40	125	124	72
Number of branches, end of period	40,380	24,611	28,482	31,119	34,579	38,492	39,532	40,380
Net change in branches	34,854	2,967	3,821	2,687	3,460	3,913	1,040	848

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; *Annual Statistical Digest*; and unpublished data.

NO. 822. BANKS CLOSED DUE TO FINANCIAL DIFFICULTIES: 1951 TO 1983

[Prior to 1959, excludes Alaska and Hawaii. Banks are closed either permanently or temporarily by order of supervisory authorities or by directors of banks. See *Historical Statistics, Colonial Times to 1970*, series X 741, 748, 756, and 761]

ITEM	Unit	1951-1960	1961-1970	1971-1980	1977	1978	1979	1980	1981	1982	1983
Total banks	Number	43	63	83	6	7	10	10	10	42	48
Insured	Number	28	50	79	6	7	10	10	10	42	48
Noninsured	Number	15	13	4	-	-	-	-	-	-	-
Deposits	\$1,000	114,972	342,360	5,371,655	205,208	854,154	110,696	216,300	3,826,022	9,908,379	5,441,606
Insured	\$1,000	104,610	334,570	5,290,491	205,208	854,154	110,696	216,300	3,826,022	9,908,379	5,441,606
Noninsured	\$1,000	10,362	7,790	81,164	-	-	-	-	-	-	-

- Represents zero.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 823. BANK HOLDING COMPANIES—OFFICES, ASSETS, DEPOSITS: 1970 TO 1983

[As of Dec. 31. A "bank holding company" means any company which has control over any bank or over any company that is, or becomes, a bank holding company by virtue of the Bank Holding Company Act and its amendments. Represents domestic data only]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Number of companies	121	1,821	1,912	2,027	2,222	2,478	2,905	3,500	4,285	5,083
Banking offices	4,155	22,056	22,990	24,243	25,614	27,099	29,824	33,733	37,068	41,457
Banks	895	3,674	3,791	3,903	4,101	4,280	4,954	5,689	6,731	7,721
Branches	3,260	18,382	19,199	20,340	21,513	22,819	24,870	28,044	30,337	33,736
Assets (bil. dol.)	92.9	661.3	700.0	795.1	905.0	1,004.7	1,134.4	1,298.7	1,537.9	1,735.9
Percent of all commercial banks	16.1	68.5	67.9	68.2	68.7	70.6	74.1	77.3	82.6	85.9
Deposits (bil. dol.)	78.1	527.5	553.8	624.3	691.1	744.7	840.8	936.7	1,113.7	1,279.4

Source: Board of Governors of the Federal Reserve System, *Banking and Monetary Statistics, 1941-1970*; *Annual Statistical Digest*; and unpublished data.

No. 824. COMMERCIAL BANKS—ASSETS AND LIABILITIES: 1970 to 1983

[In billions of dollars, except number of banks. As of Dec. 31. Includes noninsured nondeposit trust companies. Includes outlying areas. Beginning 1980, excludes American branches of foreign banks. See *Historical Statistics, Colonial Times to 1970*, series X 586-609, for related data]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Number of banks.....	13,705	14,657	14,698	14,738	14,741	14,738	14,704	14,718	14,763	14,789
Assets	581.5	974.7	1,040.1	1,176.6	1,329.0	1,437.7	1,543.5	1,692.3	1,878.3	2,031.6
Securities, total ¹	148.5	230.8	253.2	261.0	272.0	287.8	326.0	342.4	375.4	430.7
U.S. Treasury.....	59.3	81.6	98.0	97.0	90.6	88.8	104.5	103.5	118.7	168.4
Obligations of States and subdivisions.....	67.9	101.6	103.3	113.7	124.6	133.3	146.5	151.4	154.9	158.8
Federal funds sold and securities purchased ²	16.3	39.3	48.5	54.2	55.0	63.5	71.4	91.2	103.6	93.3
Loans, gross	300.4	512.5	552.1	632.3	737.6	813.8	841.9	932.5	1,033.4	1,126.2
Commercial and industrial loans.....	113.4	181.0	185.1	207.3	236.9	285.8	283.3	329.7	382.7	404.5
Real estate loans.....	73.3	136.5	151.2	179.0	214.0	245.2	263.6	284.0	300.3	328.3
Construction and land development..... ⁽³⁾	(*)	(*)	17.3	21.4	27.3	32.9	36.8	45.1	52.4	60.6
Secured by farmland.....	4.4	6.4	6.7	7.8	8.5	8.6	8.7	8.4	8.4	9.3
Secured by residential properties.....	45.6	83.1	85.9	101.9	124.4	143.9	154.1	163.1	167.2	176.9
Secured by other properties.....	23.3	46.9	41.3	47.9	53.8	59.7	63.9	67.4	72.3	81.5
Loans to financial institutions ⁴	18.6	42.5	42.7	43.9	55.5	48.9	46.7	57.1	73.8	77.3
Securities loans (dealers and other).....	9.8	11.1	15.4	17.4	14.9	13.6	12.5	15.3	13.7	17.0
Loans to farmers (excl. real estate).....	11.2	20.2	23.2	25.7	28.3	31.1	31.8	33.0	35.2	39.0
Other loans to individuals.....	66.3	107.6	119.3	141.5	167.9	187.9	181.7	186.8	193.0	216.1
All other loans (incl. overdrafts).....	7.7	13.6	15.1	17.5	20.1	21.3	22.1	26.6	33.7	42.0
Net loans.....	(x)	(x)	533.2	610.5	711.9	784.6	812.2	902.0	1,001.8	1,093.6
Cash, balances with banks, etc.....	94.0	134.5	136.8	170.1	188.5	198.9	202.3	197.3	211.2	228.4
Other.....	22.4	57.7	68.4	80.9	101.4	102.6	131.7	159.4	186.3	185.6
Liabilities and equity capital	581.5	974.7	1,040.1	1,176.6	1,329.0	1,437.7	1,543.5	1,692.3	1,878.3	2,031.6
Deposits.....	485.5	792.9	845.1	947.1	1,043.3	1,108.7	1,194.0	1,277.8	1,408.1	1,534.5
Demand.....	249.0	325.5	338.7	384.9	408.5	435.0	439.1	385.5	372.2	389.8
Time and savings.....	236.5	467.4	506.4	562.2	634.7	673.7	760.9	892.3	1,034.0	1,144.7
Business and personal.....	397.3	652.9	704.8	788.3	875.0	940.8	1,029.2	1,128.1	1,236.3	1,371.6
Government.....	49.7	71.1	72.3	85.1	88.8	87.2	84.8	88.1	90.5	86.9
Domestic interbank.....	29.2	45.3	45.6	60.4	67.1	69.3				
Foreign government and bank.....	9.3	23.5	22.4	13.3	12.3	11.1	79.6	65.6	78.4	76.0
Miscellaneous liabilities.....	46.5	103.3	116.7	143.4	191.2	225.2	235.6	289.6	336.1	350.9
Subordinated notes and debentures.....	2.2	4.8	5.3	5.8	5.9	6.0	6.3	6.3	6.9	6.6
Equity capital.....	41.0	64.9	73.1	80.8	86.6	97.8	108.1	118.6	129.2	140.6
Stock.....	11.4	15.7	16.4	17.4	18.5	20.6	22.0	23.8	25.1	28.4
Surplus.....	18.2	26.9	29.3	31.7	37.7	36.5	37.9	40.4	43.4	47.8
Undivided profits and reserve.....	11.4	22.3	27.4	31.2	36.4	41.8	48.2	54.4	60.7	66.4

X Not applicable. ¹ Includes other categories not shown separately. ² Under agreements to resell. ³ Prior to 1976, included in other categories of real estate loans. ⁴ Includes loans to foreign banks.

Source: U.S. Federal Deposit Insurance Corporation, *Assets and Liabilities: Commercial and Mutual Savings Banks*, semiannual; beginning 1978, *Annual Report* and unpublished data.

No. 825. INSURED COMMERCIAL BANKS—SELECTED MEASURES OF FINANCIAL CONDITION: 1975 to 1983

[As of December 31]

ITEM	Unit	1975	1976	1977	1978	1979	1980	1981	1982	1983
Number of banks.....	Number.....	14,467	14,494	14,439	14,372	14,364	14,435	14,415	14,451	14,469
Equity and debt capital.....	Bil. dol.....	70.3	77.4	85.1	93.2	103.3	114.1	124.8	136.2	147.7
Equity capital to total assets.....	Percent.....	6.1	6.1	5.9	5.8	5.7	5.8	5.8	5.9	6.0
Equity capital to total deposits.....	Percent.....	8.5	7.3	7.1	7.1	7.1	7.3	7.4	7.6	7.6
Debt capital to total assets.....	Percent.....	6.3	6.7	6.9	6.6	6.1	5.7	5.2	5.4	4.8
Total capital to total assets.....	Percent.....	6.5	6.6	6.4	6.2	6.1	6.2	6.2	6.2	6.3
Total capital to total liabilities.....	Percent.....	6.9	7.0	6.8	6.6	6.5	6.6	6.6	6.6	6.7
Total capital to risk assets.....	Percent.....	9.0	9.1	8.8	8.5	8.3	8.4	8.2	8.2	8.4
Total loans, excluding Federal funds.....	Bil. dol.....	579.4	626.9	722.4	828.5	931.2	1,002.5	912.3	1,208.1	1,299.8
Total loans to deposits.....	Percent.....	63.4	63.2	64.7	67.4	68.4	67.7	70.2	70.8	70.6
Net loan losses to average total loans.....	Percent.....	.61	.64	.47	.37	.34	.38	.36	.58	.67
Aggregate net operating income ¹	Mill. dol.....	7,146	7,615	8,726	10,899	13,126	14,484	15,600	15,587	14,978
Aggregate net income to average equity capital.....	Percent.....	11.3	11.0	11.5	13.1	14.3	14.1	13.8	12.1	11.1
Aggregate net income to total assets.....	Percent.....	.72	.73	.75	.82	.88	.78	.77	.72	.66

¹ After taxes and before security transactions.

Source: U.S. Federal Deposit Insurance Corporation, *The Condition of the Financial System*, May 1980, and unpublished data.

NO. 826. COMMERCIAL BANKS—DOMESTIC ASSETS AND DEPOSITS, STATES AND OTHER AREAS: 1983

(In millions of dollars, except as indicated. As of December 31. Excludes foreign branches of U.S. banks)

STATE OR OTHER AREA	ALL COMMERCIAL BANKS ¹					INSURED COMMERCIAL BANKS					
	Assets		Deposits			Assets		Deposits			
	Total	Percent held by multi-bank holding companies	Total	Per capita * (dol.)	Percent held by multi-bank holding companies	Total ²	Gross loans			Total ³	Time and savings
							Total ³	Commercial and industrial	Real estate		
Total	(NA)	(NA)	(NA)	(NA)	(NA)	2,027,298	1,125,689	404,365	327,986	1,533,938	1,144,409
U.S.	2,019,904	56.2	1,527,225	6,527	52.7	2,016,467	1,122,379	403,304	327,040	1,526,897	1,138,749
AL	22,088	64.1	17,592	4,469	60.6	22,088	10,403	3,163	3,228	17,692	13,137
AK	3,949	10.8	3,166	6,610	11.7	3,949	2,173	747	1,132	3,166	2,160
AZ	18,988	25.5	15,836	5,345	26.0	18,974	11,518	3,331	3,913	15,838	11,684
AR	15,066	14.7	12,695	5,453	14.2	15,053	7,673	2,583	2,740	12,695	10,114
CA	227,674	45.0	178,681	7,098	46.0	227,865	149,469	48,645	54,448	178,681	133,137
CO	22,252	71.1	18,025	5,742	69.6	21,850	12,766	4,426	3,892	17,853	12,515
CT	18,803	43.1	15,210	4,847	42.5	18,803	10,704	3,393	3,831	15,210	10,153
DE	12,803	49.1	7,385	12,186	44.1	12,802	9,322	2,549	1,560	7,385	6,227
DC	11,012	8.2	8,483	13,616	7.9	11,012	5,450	2,011	1,731	8,483	5,909
FL	69,149	73.9	57,895	5,421	72.9	69,118	34,010	8,353	14,057	57,873	42,873
GA	33,956	67.9	25,710	4,485	63.4	33,956	17,091	5,321	4,766	25,710	17,309
HI	7,251	6.1	6,261	6,120	6.4	7,210	4,001	1,157	1,873	6,253	4,948
ID	6,438	82.9	5,216	5,274	81.3	6,438	3,837	1,184	1,032	5,216	4,248
IL	136,972	43.3	96,611	8,585	33.6	136,914	79,136	34,430	19,338	96,611	75,400
IN	39,591	2.7	33,064	6,035	2.7	39,591	19,477	4,815	7,516	33,064	26,462
IA	26,921	34.9	23,133	7,963	34.6	26,913	12,875	2,851	3,440	23,126	19,400
KS	20,907	11.1	18,035	7,437	10.8	20,907	10,757	3,335	2,422	18,035	14,539
KY	25,315	12.8	20,539	5,530	10.7	25,313	12,629	3,524	4,195	20,538	15,789
LA	32,959	-	27,816	6,268	-	32,959	17,238	6,218	5,271	27,816	20,445
ME	4,206	51.5	3,549	3,097	50.6	4,206	2,142	671	824	3,549	2,699
MD	21,917	64.2	17,152	3,985	61.9	21,917	10,832	3,271	4,355	17,152	11,964
MA	42,715	74.9	30,919	5,361	72.8	42,718	21,712	9,565	5,533	30,919	21,019
MI	61,755	76.9	50,379	5,555	74.6	61,755	31,548	10,136	11,807	50,379	40,375
MN	41,602	67.0	31,260	7,543	61.4	41,557	23,400	8,368	6,630	31,240	24,409
MS	14,834	-	12,453	4,814	-	14,834	7,397	1,817	2,535	12,453	9,777
MO	42,827	74.2	34,467	6,935	71.7	42,783	20,733	6,386	6,846	34,466	25,517
MT	6,864	67.3	5,713	6,993	65.0	6,861	3,826	1,362	937	5,713	4,677
NE	14,663	21.8	12,348	7,732	20.3	14,651	7,925	1,843	1,201	12,344	9,760
NV	5,010	49.4	4,079	4,578	50.9	4,999	2,612	686	1,220	4,080	2,835
NH	4,761	45.6	4,130	4,307	44.1	4,761	2,881	683	1,324	4,131	3,359
NJ	46,540	58.9	39,519	5,292	57.6	46,540	24,728	7,971	9,456	39,519	28,061
NM	8,432	56.4	7,253	5,164	57.0	8,432	4,595	1,772	1,278	7,253	5,720
NY ⁴	340,456	80.4	200,215	11,333	77.5	339,805	192,411	65,654	27,571	200,160	133,067
NC	34,412	22.9	25,088	4,125	21.5	34,412	18,034	6,260	5,123	25,088	18,611
ND	6,959	44.5	5,512	8,106	43.8	6,956	3,274	999	755	5,512	4,626
OH	66,343	71.2	52,121	4,850	69.0	66,342	34,634	9,931	11,343	52,121	40,773
OK	30,714	9.7	25,833	7,833	9.4	30,664	17,216	6,595	4,794	25,792	20,020
OR	15,334	77.4	12,134	4,558	74.9	15,333	8,801	3,040	2,851	12,134	9,571
PA	104,864	60.3	78,982	6,640	55.1	104,823	53,139	18,644	15,662	78,945	62,253
RI	9,152	22.1	6,175	6,466	25.9	9,152	5,042	1,666	2,089	6,175	4,768
SC	11,520	4.1	9,382	2,874	4.4	11,520	5,372	1,443	1,531	9,381	6,644
SD	10,435	73.7	7,886	11,266	69.3	10,434	7,357	874	740	7,886	7,051
TN	29,943	57.5	24,941	5,324	55.0	29,943	14,940	4,585	4,774	24,940	19,283
TX	172,091	74.1	133,082	8,464	70.5	172,130	98,369	43,716	29,238	133,122	97,669
UT	8,793	55.3	7,137	4,408	56.3	8,793	5,018	1,455	2,186	7,137	5,309
VT	3,248	25.3	2,920	5,562	25.6	3,247	2,108	471	1,164	2,920	2,422
VA	33,323	36.3	27,100	4,893	36.7	33,320	19,913	5,110	6,819	27,100	21,079
WA	25,021	76.2	20,547	4,778	74.4	25,021	15,827	6,162	4,743	20,547	15,410
WV	12,604	16.1	10,658	5,424	14.7	12,604	5,807	1,047	2,629	10,657	8,844
WI	32,763	56.5	27,050	5,694	53.8	32,742	17,857	5,020	7,507	27,050	21,546
WY	4,298	56.0	3,789	7,372	55.7	4,297	2,295	864	658	3,789	3,063
PR	(NA)	(NA)	(NA)	(NA)	(NA)	8,637	3,223	1,025	930	6,889	5,548
GU ⁵	(NA)	(NA)	(NA)	(NA)	(NA)	174	87	36	16	152	112

- Represents zero. NA Not available. ¹ Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*. ² Based on U.S. Bureau of the Census resident population estimates as of July 1. ³ Includes other items not shown separately. ⁴ Includes data for Puerto Rican bank branches located in U.S. ⁵ Consists of data for one insured commercial bank chartered in Guam.

Source: Except as noted, U.S. Federal Deposit Insurance Corporation, unpublished data.

**No. 827. 500 LARGEST BANKS IN THE WORLD—NUMBER AND DEPOSITS; BY LOCATION OF BANK:
1970 TO 1983**

[Deposits in billions of dollars, except percent. Data cover U.S. commercial banks and foreign banks that conduct a commercial banking business; beginning 1983, includes U.S. and foreign savings banks. Number of banks includes banks more than 50 percent owned by other banks. To avoid double-counting of deposits, banks more than 50 percent owned by other banks are excluded from deposit totals if their parent bank consolidates their deposits]

LOCATION OF BANK	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	PERCENT		
											1970	1980	1983
NUMBER													
U.S. banks	185	137	129	115	106	95	93	97	97	102	37.0	18.6	20.4
Foreign banks	315	363	371	385	394	405	407	403	403	398	63.0	81.4	79.6
DEPOSITS													
Total	890.0	2,175.6	2,479.1	2,980.0	3,888.5	4,507.9	4,993.6	5,212.9	5,230.4	5,679.4	100.0	100.0	100.0
U.S. banks	286.1	493.7	525.1	577.0	635.1	697.4	753.5	806.1	794.2	881.7	33.3	15.1	15.5
Foreign banks	593.9	1,681.9	1,954.0	2,403.0	3,253.4	3,810.5	4,240.1	4,406.8	4,436.2	4,797.7	66.7	84.9	84.5

Source: *American Banker*, New York, NY, selected July issues.

**No. 828. FOREIGN BRANCHES OF U.S. FEDERAL RESERVE MEMBER BANKS—NUMBER AND ASSETS:
1970 TO 1983**

[As of year end. The foreign branch activities of nonmember banks are not significant]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
<i>Member banks operating foreign branches.....</i>	Number.....	79	126	126	130	137	139	159	159	162	163
<i>Foreign branches.....</i>	Number.....	532	762	723	730	761	789	787	841	900	1 690
<i>Assets of foreign branches ².....</i>	Bil. dol.....	50.0	145.3	174.5	205.0	232.0	279.5	310.5	343.3	341.3	4 345.0
<i>Percent of total assets of all insured commercial banks ⁵.....</i>	Percent.....	7.3	13.1	14.5	15.0	15.0	15.4	16.3	16.1	14.2	12.6
<i>Assets of branches in United Kingdom ².....</i>	Bil. dol.....	24.0	66.7	70.6	79.2	78.2	95.0	107.4	111.9	110.8	(NA)
<i>Assets of branches in The Bahamas and Cayman Islands ².....</i>	Bil. dol.....	4.0	36.6	54.5	64.2	67.9	87.5	93.3	104.8	100.5	(NA)

NA Not available. ¹ Preliminary. ² Data exclude claims on other foreign branches of the same bank. ³ Includes assets of foreign branches in other countries, not shown separately. ⁴ Estimated. ⁵ Percentages reflect adjustments to exclude foreign branch claims on the U.S. offices of their parent banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

**No. 829. U.S. BANKING OFFICES OF FOREIGN BANKS—SELECTED ASSETS AND LIABILITIES:
1974 TO 1984**

[As of December, except as indicated. Offices include agencies, branches, subsidiary commercial banks and New York investment companies, and exclude Puerto Rican banks]

ITEM	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, Mar.
Assets, total.....	Bil. dol.....	46.1	52.4	61.3	76.8	109.1	149.6	200.6	250.6	299.7	328.9	325.6
Standard banking assets.....	Bil. dol.....	36.9	42.1	48.5	59.0	87.6	122.5	163.8	216.4	252.3	275.0	293.2
Loans, total.....	Bil. dol.....	27.0	29.9	35.4	41.5	65.3	91.9	121.4	157.7	185.1	193.3	187.2
Business loans.....	Bil. dol.....	18.8	19.9	19.7	22.0	32.7	49.2	59.6	73.6	82.5	84.5	24.4
Deposits, total.....	Bil. dol.....	17.0	22.6	26.1	33.8	46.3	62.8	80.4	101.8	154.3	191.2	183.8
SHARE ¹												
Assets, total.....	Percent.....	4.9	5.3	5.6	6.4	8.0	9.9	11.9	13.5	14.4	14.6	14.8
Standard banking assets.....	Percent.....	4.3	4.7	5.1	5.6	7.3	9.1	11.0	12.9	13.5	13.6	14.7
Loans, total.....	Percent.....	5.1	5.7	6.4	6.6	8.8	10.9	13.4	15.4	16.2	15.6	15.0
Business loans.....	Percent.....	9.5	10.4	10.2	10.3	13.1	16.3	18.2	18.2	18.8	18.3	17.3
Deposits, total.....	Percent.....	2.3	2.9	3.1	3.6	4.5	5.6	6.6	7.7	10.3	11.0	11.5

¹ Percent of "domestically owned" commercial banks plus U.S. offices of foreign banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

NO. 830. FOREIGN LENDING BY LARGE U.S. BANKS, BY COUNTRY, TYPE OF BORROWER, AND

MATURITY: 1983

[In millions of dollars. As of December. Covers 209 U.S. banking organizations which do nearly all of the foreign lending in the country. Data represent claims on foreign residents and institutions held at all domestic and foreign offices of covered banks. Data cover only cross-border and non-local currency lending. These result from a U.S. bank's office in one country lending to residents of another country or lending in a currency other than that of the borrower's country. Excludes \$81.4 billion in local currency loans and other claims and \$52.7 billion in local currency liabilities held by banks' foreign offices on residents of the country in which the office was located (e.g. Deutsche mark loans to German residents booked at the German branch of the reporting U.S. bank)]

COUNTRY	Total claims ¹	Bank borrowers	Public borrowers	Maturity, one year or less	COUNTRY	Total claims ¹	Bank borrowers	Public borrowers	Maturity, one year or less
Total ²	357,348	183,648	76,340	249,544	Korea, Rep. of	11,482	6,355	2,282	8,260
Algeria	1,179	217	826	499	Kuwait	1,625	1,107	46	1,551
Argentina	8,504	2,292	3,596	8,058	Liberia	2,001	12	79	710
Australia	5,735	872	526	2,681	Malaysia	1,812	219	1,020	657
Austria	1,866	1,415	339	1,533	Mexico	26,338	4,474	12,008	13,301
Bahamas	8,108	7,710	47	7,519	Morocco	911	502	339	599
Bahrain	2,256	2,124	45	2,217	Netherlands	3,371	2,034	115	2,639
Belgium-Luxembourg	10,982	8,912	1,297	9,541	Netherlands Antilles	1,366	368	16	833
Brazil	20,653	8,207	8,250	8,163	New Zealand	830	37	267	332
British West Indies	8,356	8,131	69	8,123	Nigeria	2,088	349	1,553	754
Canada	11,877	7,403	806	8,878	Norway	3,423	815	95	1,458
Chile	6,201	3,136	1,754	2,800	Panama	3,974	2,048	399	2,797
China:					Peru	2,495	518	1,610	1,537
Mainland	685	243	333	578	Philippines	6,082	1,285	2,795	3,774
Taiwan	3,746	1,008	1,295	1,973	Poland	1,067	449	610	379
Colombia	3,316	1,408	1,051	2,140	Portugal	1,468	652	622	837
Denmark	3,682	1,049	1,208	1,560	Saudi Arabia	2,192	589	23	1,763
Ecuador	2,086	420	1,238	1,297	Singapore	7,734	6,180	94	7,343
Egypt	1,585	1,043	348	1,287	South Africa	4,637	2,936	488	3,881
Finland	2,304	1,337	399	1,609	Soviet Union	154	59	92	98
France	13,757	10,443	1,821	10,785	Spain	8,434	2,638	1,563	3,455
German Dem. Rep.	485	261	204	320	Sweden	5,465	3,035	1,608	3,662
Germany, Fed. Rep.	6,051	1,821	637	4,820	Switzerland	3,673	1,877	164	3,260
Greece	3,426	289	820	2,317	Thailand	2,102	1,061	403	1,656
Hong Kong	8,771	4,975	162	7,137	Turkey	1,718	268	1,364	446
Hungary	904	85	816	376	United Arab Emirates	1,630	1,089	328	1,400
Indonesia	3,559	370	1,085	1,986	United Kingdom	50,299	39,295	968	44,631
India	752	313	146	471	Uruguay	1,049	91	835	313
Ireland	1,240	364	576	702	Venezuela	11,257	2,526	5,346	8,278
Israel	2,093	1,638	300	1,693	Yugoslavia	2,432	1,400	656	687
Italy	9,983	5,979	2,354	6,635					
Japan	21,308	13,834	112	17,052					

¹ Includes nonbank private borrowers and maturity over one year, not shown separately.

² Includes countries not shown separately.

Source: Board of Governors of the Federal Reserve System, Federal Financial Institutions Examination Council, statistical release.

NO. 831. MUTUAL SAVINGS BANKS—ASSETS AND LIABILITIES: 1970 TO 1983

[In billions of dollars, except number of banks. As of Dec. 31. Includes Puerto Rico through 1975. Excludes federally chartered mutual savings banks which were first allowed in 1979. See *Historical Statistics, Colonial Times to 1970*, series X 687-688 and X 821-833, for related data]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Number of banks	494	480	476	473	467	465	463	460	442	386	393
Assets ¹	79.2	109.5	121.1	134.8	147.3	158.2	157.9	166.6	164.7	163.1	179.5
Loans and discounts, gross	60.4	78.7	81.3	86.8	94.4	102.4	102.5	106.6	104.5	101.8	107.4
Real estate loans	57.9	74.9	77.2	81.6	88.2	95.2	96.2	98.1	95.0	89.5	92.9
Securities	16.2	26.0	34.2	42.0	46.6	47.8	46.1	48.0	46.0	44.6	53.6
U.S. Government	5.0	6.8	10.6	14.8	17.4	18.0	18.8	21.1	21.2	21.4	26.3
Other securities	11.2	19.1	23.4	27.2	29.1	29.8	27.5	26.9	24.8	23.4	25.4
Liabilities and surplus	79.2	109.5	121.1	134.8	147.3	158.2	157.9	166.6	164.7	163.1	179.5
Deposits	72.1	99.4	110.6	123.7	134.9	143.7	142.0	149.9	146.6	146.6	161.7
Miscellaneous liabilities	1.2	2.2	2.1	2.1	2.4	3.6	5.2	6.1	9.1	8.0	8.9
Surplus accounts	5.9	8.0	8.4	9.1	10.0	10.9	10.7	10.6	9.0	8.5	8.9

¹ Includes assets not shown separately.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 832. SAVINGS AND LOAN ASSOCIATIONS—FINANCIAL SUMMARY: 1970 TO 1983

[In billions of dollars, except number of associations. As of December 31, except as indicated. Includes Puerto Rico and Guam. See headnote, table 833. Excludes associations which have either liquidated or converted to banks; for details, see source. Minus sign (-) indicates outflow. See also *Historical Statistics, Colonial Times to 1970*, series X 834-844]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.
Number of associations	5,669	5,086	4,931	4,821	4,761	4,725	4,684	4,613	4,292	3,825	3,513
Number insured	4,365	4,141	4,078	4,044	4,065	4,053	4,039	4,002	3,779	3,343	3,040
Total assets	176.2	295.5	338.2	391.9	459.2	523.6	579.0	629.8	664.2	707.6	771.7
Cash and investment securities	16.5	23.3	30.9	35.7	39.2	44.9	46.3	57.6	63.1	85.4	103.4
Mortgage loans outstanding ¹	150.3	249.3	278.6	323.0	381.2	432.9	475.7	502.8	518.5	483.6	493.4
Other assets	9.3	22.9	28.7	33.2	38.9	45.9	56.9	69.4	82.6	138.6	174.9
Total liabilities	163.8	277.1	318.5	369.9	434.0	494.6	546.3	596.4	635.8	681.4	740.8
Savings capital	146.4	243.0	285.7	335.9	386.8	431.0	470.0	511.0	525.1	568.0	634.1
Other	17.4	34.1	32.7	34.0	47.2	63.6	76.3	85.4	110.7	113.4	106.7
Net worth ²	12.4	18.4	19.8	22.0	25.2	29.0	32.6	33.4	28.4	26.2	30.9
Mortgage loans made during year ^{3,4}	21.4	39.0	55.0	78.8	107.4	110.3	100.5	72.5	53.3	54.3	135.3
Home construction ⁴	4.2	6.5	8.7	13.0	18.2	20.1	18.6	13.5	10.3	9.1	18.5
Home purchase ⁴	10.2	22.6	30.7	45.7	62.5	65.6	60.7	41.9	27.5	20.5	50.2
Net new savings ⁵	5.3	4.7	29.3	34.4	32.0	23.5	15.0	10.7	-25.4	-6.4	62.8

¹ Includes real estate sold on contract. ² Includes permanent stock. ³ Includes loans not shown separately.

⁴ Covers only 1-4 unit residential structures. ⁵ Insured associations only.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

NO. 833. SAVINGS AND LOAN ASSOCIATIONS—SELECTED FINANCIAL ITEMS, STATES AND OTHER AREAS: 1982

[In millions of dollars, except number of associations. As of December 31. Major balance sheet items for all operating and insured associations not identical with those shown in table 832, primarily because some State-chartered associations submit their reports on dates other than Dec. 31. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	Number of associations	Total assets	Mortgage loans outstanding	Savings capital	DIVISION AND STATE OR OTHER AREA	Number of associations	Total assets	Mortgage loans outstanding	Savings capital
Total U.S.	3,825	701,280	480,444	563,334	So. Atl.—Con.				
Region:	3,812	698,285	478,782	561,289	MD	159	12,587	8,608	10,591
Northeast	763	98,893	61,907	83,456	DC	8	3,658	2,535	2,698
Midwest	1,226	190,672	132,272	158,860	VA	76	12,705	8,961	10,139
South	1,437	202,846	142,991	170,080	WV	25	1,827	1,175	1,586
West	386	206,074	141,612	149,113	NC	162	13,418	10,022	11,977
N. Eng.	212	18,824	12,622	16,152	SC	44	6,929	5,161	6,095
ME	18	678	426	577	GA	71	11,685	8,423	10,246
NH	13	1,277	958	1,128	FL	116	53,315	38,205	44,294
VT	5	273	201	227	E. So. Cent.	249	22,376	16,407	19,584
MA	134	8,224	5,891	7,089	KY	79	6,343	4,874	5,556
RI	4	875	514	695	TN	81	7,646	5,812	6,785
CT	38	7,494	4,832	6,436	AL	38	5,190	3,684	4,686
Mid Atl.	551	80,069	49,285	67,304	MS	51	2,995	2,037	2,677
NY	89	23,728	12,668	19,524	W. So. Cent.	512	63,884	43,308	52,623
NJ	169	30,771	18,169	25,824	AR	48	4,456	2,654	3,884
PA	293	25,570	18,448	21,956	LA	119	10,029	7,232	8,677
E. No. Cent.	904	137,836	94,895	116,445	OK	55	7,087	5,099	5,635
OH	333	42,862	31,222	36,420	TX	290	42,312	28,323	34,427
IN	134	10,711	8,195	9,482	Mt.	138	32,476	21,358	24,198
IL	296	47,694	30,626	40,853	MT	13	1,129	841	984
MI	53	23,458	14,801	18,620	ID	9	1,175	801	872
WI	88	13,111	10,050	11,270	WY	12	1,069	762	905
W. No. Cent.	322	52,836	37,377	42,215	CO	43	9,673	7,077	7,457
IA	40	10,982	6,894	8,596	NM	28	3,057	2,038	2,466
IN	63	7,671	5,689	6,156	AZ	10	6,668	4,517	6,060
MO	96	16,481	11,818	13,745	UT	16	5,032	3,546	3,443
ND	7	2,689	1,885	2,050	NV	7	2,673	1,776	2,011
SD	18	1,176	828	1,038	Pac.	248	173,598	120,254	124,915
NE	27	5,861	4,402	4,321	WA	45	10,992	7,962	8,155
KS	71	7,976	5,861	6,309	OR	21	7,702	5,327	5,188
So. Atl.	676	116,386	83,278	97,853	CA	171	151,195	104,157	108,969
DE	15	262	186	227	AK	5	408	216	297
					HI	6	3,301	2,592	2,306
					PR	11	2,921	1,605	1,997
					GU	2	72	55	48

Source: U.S. Federal Home Loan Bank Board, *Asset and Liability Trends*, annual.

NO. 834. SAVINGS INSTITUTIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS AND RATIOS OF CONDITION: 1970 TO 1983

[As of Dec. 31 for assets, liabilities and net worth; calendar year for other items. FSLIC-Federal Savings and Loan Insurance Corporation. Beginning 1983, includes FSLIC-insured savings and loan associations which changed to FSLIC-insured savings banks. Minus sign (-) indicates either loss or outflow]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983
Assets	Bil. dol.	170.5	329.0	447.9	510.8	566.7	615.3	651.0	686.2	814.6
Mortgage loans outstanding.....	Bil. dol.	148.1	271.3	372.4	423.5	486.5	492.7	509.4	470.5	516.4
Liabilities	Bil. dol.	158.7	309.9	423.4	482.6	535.1	582.9	623.2	660.9	781.9
Net worth	Bil. dol.	11.9	19.1	24.4	28.1	31.6	32.4	27.8	25.3	32.7
Gross operating income	Bil. dol.	10.7	23.7	33.9	40.6	48.6	56.1	65.2	71.5	80.0
Operating expense.....	Bil. dol.	1.9	3.9	5.3	6.2	7.1	7.9	9.0	10.1	12.3
Cost of funds.....	Bil. dol.	6.1	17.6	24.1	28.7	36.4	47.4	63.3	70.3	67.7
Net income before taxes	Bil. dol.	1.2	2.1	4.6	5.7	5.2	1.2	-6.2	-5.9	2.7
Net income after taxes	Bil. dol.	.9	1.4	3.2	3.9	3.6	.8	-4.6	-4.3	2.0
Gross savings receipts	Bil. dol.	62.0	151.1	214.5	266.4	354.5	454.5	520.8	634.5	838.1
New savings received.....	Bil. dol.	56.5	138.4	196.3	245.7	330.6	424.2	482.0	590.8	793.9
Interest/dividends credited.....	Bil. dol.	5.5	12.8	18.2	20.7	23.9	30.3	38.8	43.7	44.3
Savings withdrawals	Bil. dol.	51.2	109.1	164.3	222.2	315.6	413.5	507.4	597.3	731.1
Net savings inflow.....	Bil. dol.	10.8	42.1	50.2	44.2	38.9	41.0	13.4	37.3	107.1
Net new savings received.....	Bil. dol.	5.3	29.3	32.0	23.5	15.0	10.7	-25.4	-6.4	62.8
Mortgage loans closed	Bil. dol.	20.8	53.8	105.3	108.3	98.7	71.3	52.3	53.4	132.4
Average cost of funds	Percent	5.30	6.32	6.44	6.67	7.47	8.94	10.92	11.38	9.83
Average effective dividend rate paid	Percent	5.14	6.21	6.39	6.56	7.29	6.78	10.71	11.19	9.71
Average interest return on mortgages	Percent	6.56	7.66	8.21	8.47	8.83	9.31	9.87	10.68	11.17
Net after taxes income to average assets	Percent	.57	.47	.77	.82	.67	.13	-.73	-.85	.27

Source: U.S. Federal Home Loan Bank Board, *Combined Financial Statements*, annual; *Savings and Home Financing Source Book*, annual; and *Federal Home Loan Bank Board Journal*, monthly.

NO. 835. FEDERAL AND STATE-CHARTERED CREDIT UNIONS—SUMMARY: 1970 TO 1983

[As of December 31. Federal data include District of Columbia, Puerto Rico, Canal Zone, Guam, and Virgin Islands. State data include Puerto Rico. Beginning 1981, data exclude corporate central credit unions which have mainly other credit unions as members. See also *Historical Statistics, Colonial Times to 1970*, series X 664-678]

YEAR	CREDIT UNIONS REPORTING ¹		MEMBERS (1,000)		ASSETS (mil. dol.)		LOANS OUTSTANDING (mil. dol.)		SAVINGS (mil. dol.)	
	Federal	State ²	Federal	State ²	Federal	State ²	Federal	State ²	Federal	State ^{2a}
1970.....	12,977	10,679	11,966	10,853	8,861	9,089	6,969	7,137	7,829	7,857
1975.....	12,737	9,871	17,066	14,196	20,209	17,804	14,669	13,300	17,530	15,522
1979.....	12,738	9,274	24,790	18,409	36,468	29,524	28,547	23,677	31,831	25,628
1980.....	12,440	8,025	24,519	19,235	40,092	33,143	26,350	22,633	36,263	29,460
1981.....	11,951	8,746	25,449	19,620	39,181	32,596	27,238	23,156	35,248	28,971
1982.....	11,426	8,464	26,105	20,393	45,494	36,886	28,192	23,454	41,352	33,236
1983 ⁴	10,962	8,200	26,798	21,757	54,482	43,830	33,201	27,172	49,889	39,834

¹ Represents operating credit unions.

² No State or local credit union law in AK, DE, SD, WY, and for 1970 and 1975, HI and NV.

³ Includes members' deposits.

⁴ State data are preliminary.

Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration*, and unpublished data.

NO. 836. FEDERALLY SPONSORED CREDIT AGENCIES—SELECTED BALANCE SHEET ITEMS: 1970 TO 1983

[In billions of dollars. As of Dec. 31. Assets and liabilities valued at par. Debt includes only publicly offered securities and are not guaranteed by U.S. Government. See *Historical Statistics, Colonial Times to 1970*, series N 300, for FHLB advances]

AGENCY AND ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Federal National Mortgage Association:											
Assets: Mortgage loans.....	15.5	29.6	31.8	32.9	34.4	43.2	50.8	57.3	59.8	69.7	75.7
Liabilities: Notes, bonds, and debentures.....	15.2	28.2	30.0	30.6	31.9	41.1	48.5	55.2	58.7	70.1	74.6
Federal Home Loan Banks (FHLB):											
Assets: Advances to members.....	10.6	21.8	17.8	15.9	20.2	32.7	41.8	49.0	65.2	66.0	59.0
Liabilities: Notes and bonds.....	10.2	21.9	18.9	16.8	18.3	27.6	33.3	41.3	58.1	56.0	51.2
Farm credit banks:											
Liabilities: Notes, bonds, and debentures.....	13.0	24.8	27.9	32.0	37.3	41.8	52.5	62.9	71.4	71.9	72.4
Federal Home Loan Mortgage Corporation:											
Liabilities: Notes, bonds, and debentures ¹.....	.3	1.6	1.6	1.7	1.7	2.3	2.8	2.5	2.6	4.5	6.8
Student Loan Marketing Association:											
Liabilities: Notes.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	.4	2.3	3.4

X Not applicable. ¹ Includes collateralized mortgage obligations.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*. Also published in Federal National Mortgage Association, *Annual Report*, and Federal Home Loan Banks, *Statements of Condition*.

No. 837. HOLDINGS OF CONSTRUCTION, LONG-TERM MORTGAGE, AND LAND LOANS, BY TYPE OF LOAN, 1970 TO 1983, AND BY LENDER, 1983

[In billions of dollars. As of end of year]

TYPE OF LOAN	1970	1975	1980	1981	1982	Total ¹	1983					
							Lender					
							Savings and loan assn.	Commercial banks	Mutual savings banks	Life insurance companies	Federal credit agencies	Mortgage pools
Mortgage credits, total	422	731	1,318	1,399	1,462	1,612	513	328	99	148	167	286
Construction loans.....	18	41	63	68	78	110	44	52	2	1	4	-
1-4 unit family homes.....	5	13	26	26	26	33	19	12	1	-	-	-
Multifamily residential.....	6	12	14	15	17	29	9	8	-	-	4	-
Nonresidential.....	7	17	22	28	36	54	16	32	1	1	-	-
Farm properties.....	(2)	-	-	-	-	-	-	-	-	-	-	-
Long-term mortgage loans.....	400	679	1,242	1,319	1,368	1,484	460	267	97	147	163	266
1-4 unit family homes.....	267	435	857	909	940	1,020	377	167	69	15	89	253
FHA insured.....	82	68	105	113	119	143	12	5	8	4	21	83
VA guaranteed.....	37	57	91	95	98	114	16	3	9	2	11	69
Conventional.....	168	310	661	702	723	763	349	159	52	9	57	101
Multifamily.....	46	82	114	118	116	124	41	9	14	19	15	6
Nonresidential.....	66	126	205	218	230	257	42	82	14	100	7	-
Farm properties.....	20	34	66	74	81	83	-	9	-	13	52	7
Land loans.....	4	11	13	12	16	18	9	8	-	-	-	-

- Represents zero. Z Less than \$500 million. ¹ Includes other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on Survey of Mortgage Lending Activity.

No. 838. MORTGAGE ACTIVITY OF BANKS, INSURANCE COMPANIES, AND SAVINGS AND LOAN ASSOCIATIONS: 1970 TO 1983

[In billions of dollars. Loans outstanding are as of end of year. Bank and savings and loan data include Puerto Rico. See *Historical Statistics, Colonial Times to 1970*, series N 266-267, X 836-839, and X 911]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Commercial banks:											
Loans outstanding ¹	73.3	132.1	136.2	151.3	177.8	212.7	243.8	262.3	282.7	299.0	328.0
Nonfarm residential.....	45.6	82.4	82.9	94.3	111.7	136.3	158.1	170.2	181.7	185.5	196.2
FHA-insured.....	7.9	7.2	6.3	5.6	5.3	5.2	4.8	4.4	4.5	4.6	5.6
VA-guaranteed.....	2.6	3.2	3.1	3.0	3.0	2.8	2.7	2.4	2.4	2.7	3.1
Conventional.....	35.1	72.0	73.5	85.7	103.4	128.3	150.6	163.3	174.7	178.2	187.5
Other nonfarm.....	23.3	43.7	46.9	50.3	58.3	66.0	77.1	83.5	92.7	105.1	122.4
Farm.....	4.4	6.0	6.4	6.7	7.8	8.5	8.6	8.5	8.3	8.4	9.3
Mutual savings banks:											
Loans acquired.....	6.1	8.6	8.9	12.1	15.3	15.5	14.0	8.2	5.6	7.0	17.3
Loans outstanding ²	57.9	74.9	77.2	81.6	88.1	94.4	99.7	100.1	99.3	97.1	99.5
Nonfarm residential.....	49.9	62.1	63.8	67.3	72.9	78.5	83.7	83.9	83.4	81.6	83.8
FHA-insured.....	16.1	14.8	14.4	14.6	14.0	13.8	13.8	13.2	12.5	11.7	10.7
VA-guaranteed.....	12.0	12.7	12.4	12.3	12.0	11.9	11.4	10.8	10.3	9.7	8.8
Conventional.....	21.8	34.6	37.0	40.4	46.9	52.9	58.5	58.9	60.6	60.2	64.3
Other nonfarm.....	7.9	12.7	13.3	14.3	15.2	15.9	16.0	16.1	15.8	15.5	15.7
Life insurance companies:											
Loans acquired.....	6.6	10.5	8.8	9.0	13.3	16.9	19.6	18.3	13.0	10.0	18.8
Nonfarm.....	6.3	9.5	7.7	7.5	10.9	14.2	16.8	16.5	11.8	9.3	17.6
Farm.....	.3	1.0	1.1	1.5	2.4	2.7	2.8	1.8	1.2	.7	1.2
Loans outstanding.....	74.4	86.2	89.2	91.6	96.8	102.9	115.1	127.9	135.6	138.5	148.4
Nonfarm.....	68.7	79.9	82.4	84.1	87.9	92.4	103.0	115.0	122.5	125.7	135.7
FHA-insured.....	11.4	8.5	7.9	7.3	6.6	6.1	5.8	5.5	5.1	4.8	4.4
VA-guaranteed.....	5.4	4.2	3.9	3.6	3.3	3.2	3.0	2.8	2.6	2.5	2.3
Other.....	51.9	67.2	70.6	73.2	78.0	83.1	94.2	106.7	114.8	118.4	129.0
Farm.....	5.6	6.3	6.8	7.5	8.8	10.5	12.2	12.8	13.1	12.8	12.7
Savings and loan associations:											
Loans made ³	25.8	47.8	62.6	90.7	123.8	128.2	116.9	86.7	63.1	61.6	147.5
Loans outstanding ⁴	150.3	249.3	278.6	323.0	381.2	432.9	475.8	502.8	517.9	492.2	512.8
FHA-insured.....	10.2	14.5	16.5	14.7	13.9	13.2	13.0	12.8	12.0	12.4	12.8
VA-guaranteed.....	8.5	15.3	14.0	16.6	16.2	15.8	15.8	15.0	14.2	14.0	15.5
Conventional.....	131.7	219.4	248.0	291.7	351.0	403.9	447.2	475.0	491.7	466.1	484.6

¹ Includes loans held by nondisposit trust companies; excludes holdings of trust departments of commercial banks. ² Includes a small amount of farm loans not shown separately. ³ Includes Guam. ⁴ Includes shares pledged against mortgage loans, junior liens and real estate sold on contract.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

NO. 839. MORTGAGE DEBT OUTSTANDING AND DELINQUENCY RATE: 1970 TO 1984

[In billions of dollars, except rate. As of Dec. 31, except as noted. Includes Puerto Rico and Guam. See also *Historical Statistics, Colonial Times to 1970*, series N 273 and N 276.]

TYPE OF PROPERTY, HOLDER, AND LOAN TYPE	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984 ¹
Mortgage debt, total.....	474	806	893	1,023	1,174	1,338	1,472	1,583	1,655	1,826	1,871
Residential nonfarm.....	358	596	665	769	891	1,020	1,124	1,202	1,248	1,366	1,402
1- to 4-family homes.....	298	495	561	658	771	891	987	1,085	1,106	1,215	1,248
Savings and loan assns.....	125	224	281	311	356	394	420	433	383	390	396
Commercial banks.....	42	77	86	105	129	150	180	170	173	182	186
Mutual savings banks.....	42	50	53	58	63	66	68	68	67	97	101
Life insurance companies.....	27	18	16	15	14	16	18	17	17	15	15
Federal agencies.....	22	38	36	36	44	53	61	68	78	87	91
Individuals and others.....	40	89	109	134	164	212	260	309	378	444	458
5 or more units.....	60	101	105	112	121	128	137	136	141	151	154
Commercial.....	86	159	171	190	211	236	256	280	302	351	359
Farm.....	30	51	57	64	71	83	92	102	107	110	110
Delinquency rate, 1- to 4-unit residential mortgage loans².....	3.13	4.37	4.59	4.62	4.58	4.63	4.97	5.24	5.53	5.59	5.48
Conventional loans.....	1.74	2.71	2.81	2.76	2.68	2.77	3.08	3.27	3.71	3.89	3.69
VA loans.....	3.03	4.17	4.44	4.42	4.44	4.82	5.34	5.87	5.95	6.08	6.14
FHA.....	3.65	5.45	5.79	5.84	6.01	6.21	6.55	6.81	7.05	7.06	7.12

¹ End of 1st quarter. ² Number of loans delinquent 30 days or more as percentage of mortgage loans in survey. Annual average quarterly figures.

Source: Mortgage debt, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; and delinquency rate, Mortgage Bankers Association, Washington, DC, *National Delinquency Survey*, quarterly.

NO. 840. CONSUMER CREDIT: 1970 TO 1984

[In billions of dollars, except percent. Estimated amounts of credit outstanding as of end of year or month; extended and repaid, for entire year. See also *Historical Statistics, Colonial Times to 1970*, series X 551-560.]

TYPE OF CREDIT	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, May
Credit outstanding.....	143.1	203.1	213.4	223.1	248.9	289.2	337.9	383.3	389.7	416.4	441.7	492.9	520.1
Ratio to disposable personal income ¹ (percent).....	20.6	22.2	21.4	20.4	20.8	22.0	22.9	23.2	21.2	20.1	19.8	20.7	20.6
Installment.....	105.5	155.1	164.6	172.0	193.5	230.6	273.6	312.0	314.9	335.7	355.8	396.1	418.1
Automobile paper.....	36.3	53.8	54.3	57.2	67.7	82.9	101.6	116.4	116.8	125.3	131.1	142.4	152.2
Revolving.....	5.1	11.7	13.7	15.0	17.2	39.3	48.3	57.0	58.5	64.5	70.0	80.8	82.4
Mobile home paper.....	2.5	13.6	14.6	14.4	14.6	15.0	15.2	16.8	17.3	18.0	22.3	23.7	24.1
All other loans.....	61.6	76.0	82.0	85.3	94.1	93.4	108.5	121.9	122.2	127.9	132.5	149.1	159.3
Noninstallment.....	37.6	48.0	48.8	51.1	55.4	58.6	64.3	71.3	74.8	80.7	85.9	96.9	102.0
Single-payment loans.....	19.3	27.3	25.8	27.4	28.8	32.8	35.8	40.0	42.4	44.0	47.1	52.5	55.5
Charge accounts.....	9.2	10.7	11.2	11.7	13.2	11.0	12.0	12.8	13.1	14.4	14.4	15.8	15.9
Service credit.....	9.1	10.0	10.9	12.0	13.4	14.8	16.4	18.6	19.3	22.3	24.3	28.6	30.7
Installment credit:													
Extended.....	115.1	173.0	172.8	180.1	210.7	257.6	297.7	324.8	306.1	334.5	344.9	(NA)	(NA)
Liquidated.....	110.4	152.8	163.3	172.7	189.2	222.1	254.5	286.4	304.6	316.3	321.8	(NA)	(NA)
Net change ²	4.7	20.2	9.5	7.4	21.6	35.5	43.1	38.4	1.4	18.2	13.1	40.2	(NA)
Ratio: Liquidations to disposable income ^{1,3} (percent).....	15.9	16.7	16.4	15.8	15.8	16.9	17.3	17.3	16.5	15.5	15.2	(NA)	(NA)
Life insurance policy loans ⁴	16.1	20.2	22.9	24.5	25.8	27.6	30.1	34.8	41.4	48.7	53.0	54.1	54.4
Delinquency rate, bank installment loans ⁵	2.14	2.53	3.13	2.77	2.57	2.62	2.71	2.93	2.82	2.61	2.39	1.94	* 2.39

NA Not available. ¹ See table 729. ² Prior to 1983, net change equals extensions, seasonally adjusted less liquidations, seasonally adjusted. Beginning 1983, net change equals outstandings, seasonally adjusted less outstandings of the previous period, seasonally adjusted. ³ Seasonally adjusted. ⁴ Source: American Council of Life Insurance, Washington, DC. Figures are annual statement asset values. These loans are not included in "Credit outstanding." ⁵ Ratio of seven types of closed-end installment loans (excluding revolving credit and bank cards) delinquent 30 days or more as a percentage of total installment loans outstanding; ratio based on number of loans. Source: American Bankers Association, Washington, DC; *Delinquency Rates on Bank Installment Loans*, quarterly. ⁶ As of March.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 841. CONSUMER INSTALLMENT CREDIT OUTSTANDING, BY HOLDER: 1970 TO 1984

[In billions of dollars. As of end of year or month. Estimated.]

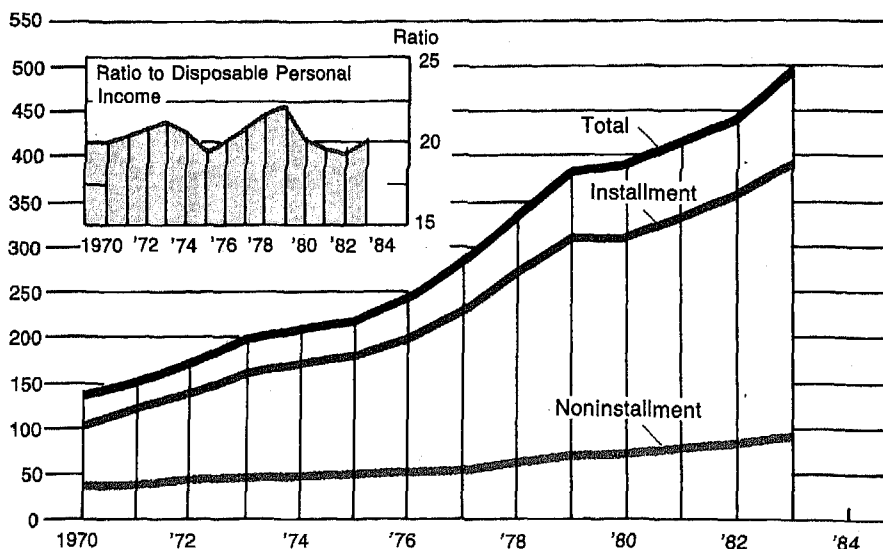
HOLDER	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, May
Total.....	105.5	155.1	164.6	172.0	193.5	230.6	273.6	312.0	314.9	335.7	355.8	396.1	418.1
Commercial banks.....	48.7	75.9	80.1	82.9	93.7	112.4	136.1	154.2	147.0	147.5	152.5	172.0	188.7
Finance companies.....	27.6	35.4	36.1	36.0	39.8	44.9	54.3	68.3	76.8	89.8	98.7	102.9	103.0
Credit unions.....	13.0	19.6	21.9	25.7	31.2	37.6	44.3	46.5	44.0	46.0	47.3	53.5	58.5
Retailers ¹	13.9	16.6	18.1	18.2	19.3	23.5	26.0	28.1	28.7	31.3	32.7	35.9	33.7
Other ²	2.3	7.6	8.4	9.2	10.5	12.2	13.0	14.9	18.4	21.0	24.7	31.9	36.2

¹ Excludes 30-day charge credit held by retailers, oil and gas companies, and travel and entertainment companies. ² Includes mutual savings banks, savings and loan associations, and gasoline companies.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

Figure 17.3
Consumer Credit: 1970 to 1983

Billions of dollars



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 840.

NO. 842. INSTALLMENT CREDIT—FINANCE RATES ON SELECTED TYPES OF CREDIT FOR COMMERCIAL BANKS AND FINANCE COMPANIES: 1973 TO 1984

[Percent per year. Annual averages, except as indicated. Commercial bank rates are "most common" rates for direct loans with specified maturities; finance company rates are weighted averages for purchased contracts]

TYPE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, May
Commercial banks:												
New automobiles (48 months) ¹	10.21	10.97	11.36	11.07	10.82	11.02	12.02	14.30	16.54	16.89	13.92	213.53
Mobile homes (120 months) ¹	10.94	11.45	11.82	11.75	11.84	12.09	12.77	14.99	17.45	18.05	15.91	215.54
Other consumer goods (24 months)	12.60	12.99	13.08	13.02	12.97	13.19	13.85	15.47	18.09	18.65	16.68	216.35
Credit-card plans	17.21	17.21	17.16	17.05	16.89	17.03	17.03	17.31	17.78	18.51	18.78	218.71
Finance companies:												
New automobiles	12.08	12.61	13.12	13.17	13.14	13.15	13.51	14.82	16.17	16.15	12.58	14.17
Used automobiles	16.70	17.18	17.63	17.63	17.82	17.87	17.98	19.10	20.00	20.75	18.74	17.80

¹ For 1973-1982, maturities were 36 months for new car loans and 84 months for mobile home loans.

² Data for midmonth of quarter only.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

NO. 843. BANK DEBITS AND DEPOSIT TURNOVER: 1970 TO 1984

[In trillions of dollars, except rate. Annual averages of monthly data, except as indicated]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, May ¹
Debits to demand deposits:												
All commercial banks	11.3	22.9	25.1	29.3	34.3	40.2	49.8	63.1	81.2	91.0	108.5	131.5
Major New York City banks	4.0	8.4	9.7	11.5	13.9	15.0	18.5	25.2	34.0	38.0	47.2	60.4
Other banks	7.3	14.5	15.4	17.8	20.4	25.2	31.3	37.8	47.2	53.0	61.2	71.1
Demand deposit turnover rate: ²												
All commercial banks	63.3	98.9	105.4	117.0	128.9	138.8	163.3	202.5	286.1	325.0	376.1	442.7
Major New York City banks	170.7	320.9	357.5	413.7	502.1	542.2	643.8	814.8	1,114.2	1,295.7	1,510.0	1,938.7
Other banks	47.0	70.6	73.0	79.9	85.8	96.1	113.4	135.0	186.2	211.5	238.1	267.5

¹ Seasonally adjusted. ² Computed by dividing debits during a period (converted to an annual rate) by average deposits against which debits are made; indicates number of times a deposit dollar is used during the period.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 844. MONEY STOCK AND LIQUID ASSETS: 1970 TO 1984

[In billions of dollars, except percent. As of December, except as indicated. Seasonally adjusted averages of daily figures. See *Historical Statistics, Colonial Times to 1970*, series X 410-417 for similar data.]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, May
M1 ¹	217	278	291	310	335	363	389	415	442	481	525	541
M2 ¹	628	909	1,023	1,164	1,287	1,389	1,498	1,633	1,797	1,985	2,196	2,258
M3 ¹	678	1,071	1,172	1,312	1,473	1,647	1,805	1,990	2,237	2,460	2,708	2,815
L ¹	816	1,242	1,368	1,517	1,705	1,911	2,117	2,326	2,598	2,869	3,176	3,328
Currency.....	49	68	74	81	89	97	106	117	124	134	148	153
Demand deposits.....	166	208	214	224	240	254	262	267	236	240	244	245
Travelers checks.....	1	2	2	3	3	4	4	4	4	4	5	5
Other checkable deposits ²	(z)	(z)	1	3	4	9	17	27	79	104	129	136
Savings deposits.....	261	339	389	453	492	481	423	402	346	362	313	306
Money market deposit accounts ²	(z)	(z)	(z)	(z)	(z)	(z)	(z)	(z)	(z)	43	376	395
Small denomination time deposits ³	152	288	338	391	446	522	635	731	827	857	793	817
Large denomination time deposits ⁴	45	145	130	118	145	195	222	259	302	328	326	368
Short-term Treasury securities.....	49	53	70	70	78	82	109	134	150	188	223	240
Savings bonds.....	52	63	67	72	76	80	80	72	68	68	71	73
Money market mutual funds, total ⁵	(z)	2	4	3	4	10	44	77	187	234	179	189
General purpose and broker/dealer ²	(z)	2	3	2	2	6	33	62	151	185	138	147
Institution only ²	(z)	(z)	(z)	1	1	3	10	15	36	48	40	42
Commercial paper.....	35	50	48	52	63	79	97	98	104	109	131	154
Bankers' acceptances.....	4	13	11	11	14	22	27	32	40	44	43	45
Term repurchase agreements (RP's) ²	2	8	8	14	19	27	30	35	37	40	56	62
Overnight repurchase agreements (RP's) ²	1	6	6	11	14	19	20	25	31	41	45	47
Term Eurodollars ⁶	2	8	10	15	20	32	45	50	68	82	93	93
Overnight Eurodollars ²	(NA)	(NA)	(NA)	(NA)	1	2	3	5	8	6	11	12
Annual percent change: ⁵												
M1.....	5.0	6.4	4.7	6.6	8.1	8.3	7.2	6.6	6.5	8.7	9.3	^a 6.7
M2.....	6.5	9.7	12.5	13.7	10.6	8.0	7.9	8.9	10.0	9.4	11.7	^a 7.4
M3.....	7.2	12.1	9.4	11.9	12.3	11.8	9.6	10.3	12.4	10.0	10.1	^a 9.5
L.....	6.9	11.1	10.1	10.9	12.4	12.1	10.8	9.9	11.7	10.4	10.7	^a 10.8

NA Not available. Z Less than \$500 million. ¹ M1 is currency plus demand deposits plus travelers checks of nonbank issuers plus other checkable deposits at banks and thrift institutions; M2 is M1 plus overnight RP's and Eurodollars, balances of money market mutual fund shares, and savings and small time deposits at commercial banks and thrift institutions; M3 is M2 plus large time deposits and term RP's at commercial banks and thrift institutions (general purpose and broker/dealer) and balance of institutions—only money market mutual funds; and L is M3 plus other liquid assets such as term Eurodollars, savings bonds, short-term Treasury securities, bankers' acceptances, and commercial paper. ² Not seasonally adjusted. ³ Issued in amounts of less than \$100,000. Includes retail repurchase agreements. ⁴ Issued in amounts of \$100,000 or more and are net of holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and official institutions. ⁵ From previous year shown; for 1970, from 1965. For definition of average annual percent change, see Guide to Tabular Presentation. ⁶ Change from May 1983-May 1984.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 845. MONEY IN CIRCULATION, BY DENOMINATION: 1970 TO 1983

[In millions of dollars. As of December 31]

DENOMINATION	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total ¹	57,093	79,743	86,547	93,717	103,811	114,645	125,600	137,244	145,566	156,158	171,935
Coin and small currency.....	39,639	51,606	54,865	57,645	62,543	66,693	70,693	73,893	76,517	79,632	84,777
Coin.....	6,281	8,392	9,959	9,483	10,071	10,739	11,658	12,419	13,064	13,597	14,269
\$1.....	2,310	2,720	2,809	2,858	3,038	3,194	3,308	3,499	3,613	3,682	3,828
\$2.....	136	135	135	637	850	661	671	677	680	684	699
\$5.....	3,161	3,718	3,841	3,905	4,190	4,393	4,549	4,635	4,797	4,810	4,936
\$10.....	9,170	10,503	10,777	10,775	11,361	11,661	11,894	11,924	11,824	11,677	11,890
\$20.....	18,581	26,197	28,344	29,987	33,233	36,045	38,613	40,739	42,519	45,180	49,355
Large currency.....	17,454	28,137	31,681	36,072	41,269	47,952	54,907	63,352	69,049	76,527	87,157
\$50.....	4,695	7,444	8,157	8,025	10,078	11,279	12,585	13,731	14,889	16,785	19,307
\$100.....	12,084	20,298	23,139	26,666	30,816	36,306	41,960	48,284	53,807	59,392	67,505
\$500.....	215	179	175	172	189	187	164	163	161	159	157
\$1,000.....	252	209	204	200	197	194	192	189	187	185	183
\$5,000.....	3	2	2	2	2	2	2	2	2	2	2
\$10,000.....	4	4	4	4	4	4	4	3	3	4	3

¹ Outside Treasury and Federal Reserve banks. ² Paper currency only; \$1 silver coins reported under coin.

Source: 1970, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; thereafter, U.S. Dept. of the Treasury, *Monthly Statement of United States Currency and Coin*, Form 1028, through 1981, and *Treasury Bulletin*, quarterly, beginning 1982.

NO. 846. SELECTED TIME DEPOSITS AND OTHER ACCOUNTS AT INSURED COMMERCIAL BANKS— DEPOSITS AND INTEREST RATES: 1983 AND 1984

[Estimates based on data collected from a sample of about 550 banks]

TYPE OF DEPOSIT	AMOUNT OUTSTANDING (mil. dol.)			AVERAGE RATE PAID (percent)		
	1983, Dec.	1984, March	1984, June	1983, Dec.	1984, March	1984, June
"Super NOW" accounts ¹	28,789	30,359	30,717	7.30	7.36	7.52
Money market deposit accounts ²	225,996	240,745	241,109	8.36	8.50	9.04
Money market certificates: ³						
7-31 day	4,815	5,000	5,080	8.50	8.75	9.16
32-91 day	14,653	15,520	16,959	8.61	8.98	9.53
92-182 day	177,543	167,794	167,575	9.42	9.87	10.62
183 day-1 year	22,720	35,080	45,596	9.56	9.94	10.90
1-2½ year	43,431	52,659	59,898	10.07	10.41	11.26
2½ year or more	111,409	110,534	108,591	10.48	10.80	11.54
All IRA and Keogh Plan deposits	30,144	35,078	40,224	(NA)	(NA)	(NA)
Retail repurchase agreements ⁴	1,342	1,130	1,108	8.19	8.27	8.85

NA Not available. ¹ Negotiable order of withdrawal accounts containing an agreement between depositor and depository such that, provided certain conditions—including a \$2,500 minimum balance—are met, some or all funds deposited are eligible to earn more than 5.25 percent. ² Deposits with a \$2,500 initial and average balance requirement, no required minimum maturity but institutions must reserve the right to require at least seven days' notice prior to withdrawal, no restrictions on depositor eligibility, or limitations on the amount of interest that may be paid unless the average balance falls below \$2,500 during which period the NOW account rate ceiling applies; such accounts may allow up to six transfers per month, no more than three of which may be draft and may permit unlimited withdrawals by mail, messenger, or in person. Estimates based on weekly deposit reports submitted by about 10,500 commercial banks. ³ All interest-bearing time certificates and open account time deposits with balances of less than \$100,000, including those held in IRAs and Keogh Plan deposits. ⁴ Retail repurchase agreements are in denominations of less than \$100,000 with maturities of less than 90 days that arise from the transfer of direct obligations of, or obligations fully-guaranteed as to principal and interest by, the U.S. Government or an agency thereof.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Statistical Release H6*, monthly.

NO. 847. MONEY MARKET INTEREST RATES: 1970 TO 1984

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 444-453]

TYPE	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, Jan.- May ¹
Federal funds, effective rate	7.18	10.50	5.82	5.04	5.54	7.93	11.19	13.36	16.38	12.26	9.09	9.93
Commercial paper, 3-month ²	(NA)	10.01	6.25	5.24	5.55	7.94	10.97	12.66	15.32	11.89	8.88	9.84
Prime rate charged by banks	7.91	10.80	7.86	6.84	6.82	9.06	12.67	15.26	18.87	14.86	10.79	11.51
Eurodollar deposits, 3-month	8.52	11.04	7.03	5.58	6.03	8.78	11.96	14.00	16.79	13.12	9.57	10.49
Finance paper, 3-month ³	7.18	6.65	6.15	5.20	5.49	7.80	10.47	11.49	14.08	11.23	8.70	9.55
Bankers' acceptances, 90-day ⁴	7.31	9.89	6.29	5.08	5.54	8.06	10.99	12.72	15.32	11.89	8.90	9.91
Large negotiable certificates of deposit, 3-month, secondary market	7.56	10.24	6.44	5.27	5.64	8.22	11.22	13.07	15.91	12.27	9.07	10.11
Federal Reserve discount rate ⁵	5½-6	7½-8	6-7½	5¼-6	5¼-6	6-9½	9½-12	10-13	12-14	8½-12	8½	8½-9
U.S. Government securities: ⁶												
3-month Treasury bill	6.39	7.83	5.78	4.97	5.27	7.19	10.07	11.43	14.03	10.61	8.61	9.41
6-month Treasury bill	6.51	7.94	6.08	5.25	5.53	7.59	10.06	11.37	13.80	11.07	8.73	9.60
1-year Treasury bill	6.48	7.70	6.28	5.52	5.71	7.74	9.75	10.89	13.14	11.07	8.80	9.69
Prime 1-year municipals ⁷	4.35	4.75	3.91	3.12	2.91	4.15	6.34	6.25	7.92	7.88	5.29	5.74

NA Not available. ¹ Monthly average. ² Averages of daily offering rates of dealers. ³ Placed directly; averages of daily offering rates quoted by finance companies. ⁴ Averages of the most representative daily offering rates of dealers. Beginning Aug. 15, 1974, closing rates were used, and from Jan. 1, 1981, rates of top-rated banks only. ⁵ Federal Reserve Bank of New York, low and high. The discount rates for 1980 and 1981 do not include the surcharge applied to frequent borrowings by large institutions. The surcharge reached 3 percent in 1980 and 4 percent in 1981. Surcharge was eliminated in Nov. 1981. ⁶ Averages based on daily closing bid yields in secondary market, bank discount basis. ⁷ Averages based on quotations for one day each month. Source: Salomon Brothers, Inc., New York, NY, *An Analytical Record of Yields and Yield Spreads*.

NO. 848. FEDERAL RESERVE BANK OF NEW YORK—DISCOUNT RATES: 1974 TO 1984

[Percent per year. See also *Historical Statistics, Colonial Times to 1970*, series X 454-455]

EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE
1974: Apr. 25	8	1978: Jan. 9	6½	1980: ¹ Feb. 15	13	1982: July 20	11½
Dec. 9	7½	May 11	7	May 30	12	Aug. 2	11
		July 3	7½	June 13	11	Aug. 18	10½
1975: Jan. 10	7½	Aug. 21	7½	July 28	10	Aug. 27	10
Feb. 5	6½	Sept. 22	8	Sept. 26	11	Oct. 12	9½
Mar. 10	6½	Oct. 16	8½	Nov. 17	12	Nov. 22	9
May 16	6	Nov. 1	9½	Dec. 5	13	Dec. 15	8½
1976: Jan. 19	5½	1979: July 20	10	1981: ¹ May 5	14	1984: April 9	9
Nov. 22	5½	Aug. 17	10½	Nov. 2	13		
		Sept. 19	11	Dec. 4	12	In effect June 30, 1984	9
1977: Aug. 31	5½	Oct. 8	12				
Oct. 26	6						

¹ See table 847, footnote 5.

Source of tables 847 and 848: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

NO. 849. BANK EFFECTIVE INTEREST RATES FOR COMMERCIAL AND INDUSTRIAL LOANS, CONSTRUCTION AND LAND DEVELOPMENT LOANS, AND FARM LOANS, BY SIZE OF LOAN: 1980 TO 1984

[In percent. Represents loans made during the first full business week in May. Based on a stratified random sample of member banks of the Federal Reserve System and nonmember banks, totaling approximately 340 banks]

TYPE AND SIZE OF LOAN	1980	1982	1983	1984	TYPE AND SIZE OF LOAN	1980	1982	1983	1984
Commercial and industrial loans:					Construction and land development loans:				
Short-term	17.75	17.11	10.31	12.45	\$1,000 to \$24,999	18.32	17.80	11.72	13.76
\$1,000 to \$24,999	17.90	18.51	13.86	14.93	\$25,000 to \$49,999	17.14	19.13	14.44	15.04
\$25,000 to \$49,999	18.78	18.58	13.69	14.46	\$50,000 to \$99,999	15.68	18.81	13.99	14.78
\$50,000 to \$99,999	18.95	18.06	12.62	14.41	\$100,000 to \$499,999	18.69	17.97	12.91	14.71
\$100,000 to \$499,999	18.49	17.77	11.87	13.86	\$500,000 and over	19.56	18.45	12.08	13.92
\$500,000 to \$999,999	19.13	17.98	11.34	13.37	Farm loans	16.99	16.96	10.91	13.19
\$1 million and over	17.10	16.94	9.87	12.12	\$1,000 to \$9,999	17.38	17.77	13.26	14.25
Long-term	18.37	18.96	11.48	13.12	\$10,000 to \$24,999	16.46	17.69	14.01	14.64
\$1,000 to \$99,999	18.26	18.80	14.52	15.00	\$25,000 to \$49,999	16.98	17.59	13.80	14.35
\$100,000 to \$499,999	18.64	17.59	12.87	13.81	\$50,000 to \$99,999	17.10	17.59	13.60	14.41
\$500,000 to \$999,999	18.62	17.29	11.92	13.50	\$100,000 to \$249,999	17.38	18.01	14.23	14.24
\$1 million and over	18.30	16.89	10.35	12.56	\$250,000 and over	18.40	17.76	13.66	14.51
						17.14	17.91	12.21	13.75

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 850. BOND YIELDS, STOCK YIELDS, AND MORTGAGE RATES: 1970 TO 1983

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 474-491]

TYPE	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
U.S. Treasury, constant maturities: ¹ ²											
3-year	7.29	7.82	7.49	6.77	6.69	8.29	9.72	11.55	14.44	12.92	10.45
5-year	7.38	7.80	7.77	7.18	6.99	8.32	9.52	11.48	14.24	13.01	10.80
10-year	7.35	7.56	7.99	7.61	7.42	8.41	9.44	11.46	13.91	13.00	11.10
20-year	6.86	8.05	8.19	7.86	7.67	8.46	9.33	11.39	13.72	12.92	11.34
U.S. Govt., long-term bonds ² ³	6.58	6.98	6.98	6.78	7.06	7.89	8.74	10.81	12.87	12.23	10.84
State and local govt. bonds, Aaa ⁴	6.12	5.89	6.42	5.65	5.20	5.52	5.89	7.64	10.42	10.86	8.80
State and local govt. bonds, Baa ⁴	6.75	6.53	7.82	7.49	6.12	6.27	6.72	9.00	11.75	12.48	10.17
High-graded municipal bonds (Standard & Poor's) ⁵	6.51	6.09	6.88	6.49	5.56	5.90	6.39	8.51	11.23	11.57	9.47
Municipal (Bond Buyer, 20 bonds)	6.35	6.17	7.05	6.64	5.68	6.03	6.52	8.59	11.33	11.66	9.51
Corporate Aaa seasoned ⁴	8.04	8.57	8.83	8.43	8.02	8.73	9.63	11.94	14.17	13.79	12.04
Corporate Baa seasoned ⁴	9.11	9.50	10.61	9.75	8.97	9.49	10.69	13.67	16.04	16.11	13.55
Corporate Aaa utility bonds ⁶	8.72	9.01	9.17	8.46	8.12	8.90	9.92	12.68	15.65	14.71	12.25
Corporate, by years to maturity: ⁷											
5 years	8.10	7.47	7.70	7.96	7.25	7.75	9.40	12.80	13.25	13.78	9.90
10 years	8.00	7.67	8.00	8.18	7.60	7.98	9.35	12.40	13.00	13.99	10.55
20 years	7.60	7.80	8.35	8.30	7.75	8.20	9.08	12.30	13.00	14.00	11.00
30 years	7.60	7.80	8.35	8.30	7.95	8.25	9.10	12.30	13.00	14.00	11.00
Corporate (Moody's) ⁴	8.51	9.03	9.57	9.01	8.43	9.07	10.12	12.75	15.06	14.94	12.78
Industrials (40 bonds)	8.26	8.78	9.25	8.84	8.28	8.90	9.85	12.35	14.50	14.54	12.25
Railroads (17 bonds) ⁸	8.77	8.98	9.39	8.85	8.13	8.64	9.60	11.48	13.22	13.68	12.08
Public utilities (40 bonds)	8.68	9.27	9.88	9.17	8.58	9.22	10.39	13.15	15.62	15.33	13.31
Stocks (Standard & Poor's): ⁵											
Preferred (10 stocks) ⁹	7.22	8.24	8.36	7.98	7.61	8.25	9.11	10.60	12.36	12.53	11.02
Common: Composite (500 stocks) ..	3.83	4.47	4.51	3.77	4.62	5.28	5.47	5.26	5.20	5.91	4.40
Industrials (400 stocks)	3.62	4.13	3.96	3.48	4.43	5.06	5.20	4.85	4.90	5.48	4.04
Home mortgages: ¹⁰											
FHA insured, secondary market	9.03	9.55	9.19	8.82	8.68	9.70	10.87	13.44	16.31	15.31	13.11
Conventional, new-home ¹¹	8.52	9.22	9.10	8.99	8.95	9.68	11.15	13.95	16.52	15.79	13.43
Conventional, existing-home ¹¹	8.56	9.23	9.14	9.04	9.00	9.70	11.16	13.95	16.55	15.82	13.45

¹ Yields on the more actively traded issues adjusted to constant maturities by the U.S. Treasury. ² Yields are based on closing bid prices quoted by at least five dealers. ³ Averages (to maturity or call) for all outstanding bonds neither due nor callable in less than 10 years, including several very low yielding "flower" bonds. ⁴ Source: Moody's Investors Service, New York, NY.

⁵ Source: Standard & Poor's Corp., New York, NY, *Standard & Poor's Outlook*, weekly. ⁶ Based on first trading day of each month, deferred call, new issue estimate. Source: Salomon Brothers, Inc., New York, NY, *An Analytical Record of Yields and Yield Spreads*. ⁷ Source: Scudder, Stevens & Clark, New York, NY, unpublished data. ⁸ Covers 23 bonds for period 1970-1981 and 15 bonds for 1982. ⁹ Yields based on 10 stocks, 4 yields. Issues converted to a price equivalent to \$100 par and a 7 percent annual dividend before averaging. ¹⁰ Averages based on quotations for 1 day each month as compiled by FHA.

¹¹ Primary market.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 851. SECURITY PRICES: 1970 TO 1983

[Annual averages of monthly figures, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series X 492-498]

CLASS OR ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Bond prices (dollars per \$100 bond):											
Standard & Poor's: Municipal ¹	72.3	76.3	68.9	72.5	81.3	77.9	73.4	57.4	43.2	41.8	51.4
Corporate AAA ¹	61.6	58.8	58.2	58.0	59.6	55.6	51.1	41.4	33.7	35.8	42.0
Dow Jones and Co., Inc.: ²											
Yearly high	69.7	73.5	68.7	93.2	93.9	90.9	86.1	76.6	65.8	71.5	77.8
Yearly low	64.4	64.1	66.2	85.7	90.7	84.5	73.4	61.0	55.0	55.7	69.4
Stock prices:											
Standard & Poor's common index (500 stocks) (1941-43=10) ³	83.2	82.8	86.2	102.0	98.2	96.0	103.0	118.7	128.0	119.7	160.4
Industrial	91.3	92.9	96.6	114.4	108.4	106.2	114.8	134.5	144.2	133.6	180.5
N.Y. Stock Exchange common stock index (Dec. 31, 1985=50):											
Composite	45.7	43.8	45.7	54.5	53.7	53.7	58.3	68.1	74.0	68.9	92.6
Yearly high ⁴	52.4	53.4	51.2	57.9	57.7	60.4	63.4	81.0	79.1	82.4	99.6
Yearly low ⁴	37.7	32.9	37.1	48.0	49.8	48.4	53.9	55.3	65.0	58.8	79.8
Industrial	48.0	48.1	50.5	60.4	57.8	56.3	64.8	78.6	85.4	78.2	107.5
Transportation	32.1	31.9	31.1	39.6	41.1	43.3	47.3	60.5	72.6	60.4	89.4
Utility	37.2	29.8	31.5	37.0	40.9	39.2	38.2	37.3	38.9	39.8	47.0
Finance	54.6	49.7	47.1	52.9	55.2	56.7	61.4	64.3	73.5	72.0	95.3
American Stock Exchange Market Value Index (Aug. 31, 1973=50) ⁵	48.3	40.0	41.6	50.8	58.1	72.2	97.8	150.6	171.8	141.3	216.5
NASDAQ OTC composite ⁶	(NA)	59.8	77.6	97.9	105.1	118.0	151.1	202.3	195.9	232.4	278.6
Industrial	(NA)	56.5	81.0	100.1	109.4	126.9	175.2	281.4	229.3	273.6	323.7
Insurance	(NA)	74.7	80.9	105.2	114.5	127.2	162.0	166.8	184.3	226.4	257.6
Banks	(NA)	61.5	72.4	92.7	95.3	102.3	109.2	118.4	143.1	158.4	203.8
Dow Jones and Co., Inc., total (65 stocks) ⁷	243.9	237.3	247.3	303.9	301.7	283.6	293.5	328.2	364.6	345.4	472.2
Industrial (30 stocks)	753.2	759.4	802.8	974.9	894.6	820.2	844.4	891.4	932.9	884.4	1,190.3
Transportation (20 stocks)	152.4	164.1	163.4	214.0	225.2	222.6	237.8	307.2	398.6	359.8	544.6
Public utility (15 stocks)	108.8	75.8	79.8	92.3	111.0	104.6	104.6	110.4	108.6	112.0	130.0
Wilshire 5000 equity index ⁸ (Dec. 31, 1980=1404.596)	830.3	713.1	763.8	903.0	892.1	913.3	1,028.9	1,220.7	1,343.7	1,233.7	1,691.5
Standard & Poor's:											
Dividend-price ratio (percent)	3.83	4.47	4.31	3.77	4.62	5.28	5.47	5.26	5.20	5.81	4.40
Earnings-price ratio (percent)	6.45	11.60	9.14	8.90	10.79	11.96	13.46	12.66	11.87	11.8	7.9

NA Not available. ¹ Derived from average yields on basis of assumed 4 percent, 20-year bond; Wednesday closing prices.
² Source: Dow Jones and Co., Inc., New York, NY, Effective June 30, 1976, the Dow Jones averages of 20 income railroad bonds were discontinued. With the dropping of the rail averages, which had been part of the Dow-Jones 40-bond average, the 40-bond average became a 20-bond average consisting of 10 utility bonds and 10 industrial bonds. ³ Effective July 1976, the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial stocks, not previously covered. ⁴ Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.
⁵ Beginning July 5, 1983, the American Stock Exchange rebased its index, making August 31, 1973=50, rather than 100. Data before 1983 have been revised to reflect this base index change. ⁶ Source: National Association of Securities Dealers, Washington, DC, *Fact Book*, annual. OTC=over-the-counter. ⁷ Source: U.S. Bureau of Economic Analysis. Based on stocks listed on the New York Stock Exchange. ⁸ Represents return on the market value of all common equity securities for which daily pricing is available. For 1970-1979, annual average of end of month figures; thereafter, annual average of daily figures. Source: Wilshire Financial Services, Santa Monica, CA, releases. ⁹ Represents Dec. 31, 1970.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.NO. 852. NEW SECURITIES PUBLICLY OFFERED BY BUSINESS, BY TYPE OF SECURITY AND ISSUER:
1970 TO 1983

[In millions of dollars. Estimated gross proceeds derived by multiplying principal amounts or number of units by offering prices. Covers all new securities publicly offered for cash, for the account of the issuer, with a maturity of more than one year, registered with the Securities and Exchange Commission under the Securities Act of 1933 or exempted from registration pursuant to Regulation A or Subsections 3(a)(2)-3(a)(6) of the Act. See table 450 for new issues of State and local government securities. See also *Historical Statistics, Colonial Times to 1970*, series X 499-500 and X 505-506]

SECURITY AND ISSUER	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total	32,525	31,806	40,891	35,591	32,141	29,987	37,014	66,562	65,601	72,151	100,506
Security:											
Bonds and notes	24,366	25,937	31,024	25,368	21,939	20,468	26,468	44,650	38,965	44,004	48,081
Preferred stock	1,310	1,877	3,089	2,238	2,420	1,757	1,965	3,194	1,633	4,950	7,583
Common stock	6,849	3,992	6,778	7,985	7,782	7,762	8,581	18,718	25,003	23,197	44,842
Issuer:											
Manufacturing	8,947	7,275	14,159	8,823	4,980	4,506	6,702	20,275	15,463	13,237	22,772
Extractive	1,675	724	1,233	842	1,740	1,970	2,486	4,211	8,553	6,923	8,580
Electric, gas, water	10,405	11,849	13,955	11,743	11,102	9,139	9,972	13,771	13,304	16,408	12,166
Communication	5,121	4,311	3,603	3,257	3,883	2,968	4,049	6,863	5,871	3,894	5,508
Transportation	612	673	988	1,786	728	1,253	1,639	2,299	1,997	2,091	4,157
Financial and real estate	4,114	5,859	5,464	7,582	8,499	8,410	9,987	14,098	15,743	23,068	34,715
Commercial and other	1,751	1,115	1,508	1,559	1,408	1,750	2,179	5,055	4,772	6,508	12,606

Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

NO. 853. SALES OF STOCKS AND OPTIONS ON REGISTERED EXCHANGES: 1970 TO 1983

[Excludes over-the-counter trading. See Also *Historical Statistics, Colonial Times to 1970*, series X517-530]

EXCHANGE	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Market value of all sales, all exchanges ¹											
New York	Bil. dol.	136	167	207	198	269	323	522	533	658	1,018
American	Bil. dol.	108	143	165	157	211	252	398	416	514	816
Midwest	Bil. dol.	15	6	10	11	19	27	47	40	35	47
Chicago Option	Bil. dol.	5	8	9	9	11	12	21	25	35	60
Pacific	Bil. dol.	—	6	9	8	14	14	28	22	32	36
Philadelphia	Bil. dol.	5	5	8	7	8	9	13	13	21	31
Philadelphia	Bil. dol.	3	3	4	3	5	7	11	11	14	20
STOCKS ³											
Shares sold, all exchanges ²	Million	4,539	6,231	7,036	7,023	9,483	10,850	15,486	15,910	22,423	30,147
New York	Million	3,213	5,051	5,649	5,813	7,617	8,675	12,390	12,643	16,203	24,253
American	Million	879	539	637	652	922	1,161	1,659	1,472	1,583	2,209
Midwest	Million	145	253	276	282	343	362	598	735	1,144	1,662
Pacific	Million	165	208	274	281	298	368	435	457	810	1,071
Market value, all exchanges ²											
New York	Bil. dol.	131	157	185	187	249	300	476	491	602	957
American	Bil. dol.	103	134	165	157	210	251	398	416	514	815
Midwest	Bil. dol.	14	6	7	9	15	21	35	26	21	32
Chicago Option	Bil. dol.	5	7	9	9	10	12	21	25	35	60
Pacific	Bil. dol.	5	5	7	7	7	9	11	11	18	27
OPTIONS											
Contracts traded, all exchanges ²	Million	(NA)	18	31	40	61	64	97	109	137	134
Chicago Option	Million	(NA)	14	22	25	34	35	53	58	76	71
American	Million	(NA)	4	8	10	18	19	29	35	39	36
Market value of contracts traded, all exchanges ²											
Chicago Option	Bil. dol.	(NA)	6.4	11.7	10.9	19.7	22.9	45.8	41.7	53.7	59.5
American	Bil. dol.	(NA)	6.4	9.0	8.0	13.7	13.8	27.9	22.4	32.2	35.7
Option exercises:											
Number of contracts ⁴	Million	(NA)	.3	.9	1.3	3.1	2.5	4.9	7.4	9.2	13.6
Value ⁴	Bil. dol.	(NA)	1.3	3.4	4.2	7.5	10.9	20.3	34.6	37.1	65.1

- Represents zero. NA Not available.

¹ Includes market value of rights and warrants and, through 1975, bond sales, not shown separately.² Includes other registered exchanges, not shown separately.³ Includes voting trust certificates, American Depository Receipts, and certificate of deposit for stocks.⁴ Prior to 1977, only call options were traded.Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

NO. 854. VOLUME OF TRADING ON NEW YORK STOCK EXCHANGE: 1970 TO 1983

[Round lot: A unit of trading or a multiple thereof. On the NYSE the unit of trading is generally 100 shares in stocks. For some inactive stocks, the unit of trading is 10 shares. Odd lot: An amount of stock less than the established 100-share unit or 10-share unit of trading]

ITEM	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Shares traded												
Round lots	Million	3,124	3,661	4,839	5,519	5,419	7,371	8,336	11,562	12,049	16,669	21,848
Average daily shares	Million	2,937	3,518	4,693	5,360	5,274	7,205	8,156	11,352	11,854	16,458	21,590
High day	Million	11.6	13.9	18.6	21.2	20.9	28.6	32.2	44.9	46.9	65.1	85.3
Low day	Million	21.3	26.4	35.2	44.5	35.3	66.4	81.6	84.3	92.9	149.4	129.4
By size: ¹												
At 100-900 shares	Percent	(NA)	46.3	42.1	37.8	33.4	30.2	27.5	24.7	21.1	16.2	14.6
At 1,000-4,900 shares	Percent	(NA)	29.6	31.4	32.4	32.6	33.9	33.7	32.2	31.0	26.5	26.7
At 5,000-9,900 shares	Percent	(NA)	7.7	8.7	9.7	10.3	10.9	11.4	11.4	12.1	12.8	12.7
At 10,000 shares over ²	Percent	(NA)	16.5	17.8	20.1	23.7	25.0	27.4	31.7	35.8	42.5	46.0
Odd lots	Million	186	144	146	159	145	166	180	209	196	211	256
Value of shares traded												
Round lots	Bil. dol.	102.5	96.9	131.7	165.7	155.3	205.8	244.5	382.4	398.1	495.1	775.3
Odd lots	Bil. dol.	95.3	92.1	126.7	159.9	150.2	199.9	236.2	374.9	389.2	489.4	765.3
	Bil. dol.	7.2	4.7	5.0	6.0	5.1	5.7	6.3	7.5	6.9	6.7	10.1
Bond volume (par value)												
Daily average	Mill. dol.	4,495	4,052	5,178	5,282	4,846	4,554	4,089	5,190	5,733	7,155	7,572
	Mill. dol.	17.7	16.0	20.5	20.8	18.4	18.1	16.2	20.5	22.7	28.3	29.9

NA Not available. ¹ Share volume of reported trades by size (percent of total) on New York Stock Exchange. ² Includes bunched orders at the opening and re-opening of trading.Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

No. 855. SECURITIES LISTED ON N.Y. STOCK EXCHANGE: 1970 TO 1983

[As of December 31, except cash dividends are for calendar year]

ITEM	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Bonds:												
Face value.....	Bil. dol.	135	291	334	401	497	509	526	602	681	793	985
Market value.....	Bil. dol.	113	255	315	402	480	465	460	508	574	766	898
Average price.....	Percent	83.60	87.68	91.89	100.39	96.52	91.37	87.36	84.41	84.24	96.67	93.04
Stocks:												
Shares.....	Billion	16.1	21.7	22.5	24.5	26.1	27.6	30.0	33.7	38.3	39.5	45.1
Market value.....	Bil. dol.	636	511	685	858	797	823	961	1,243	1,144	1,305	1,584
Average price.....	Dollars	39.61	23.51	30.48	35.03	30.53	29.84	31.99	36.87	29.87	33.03	35.11
Cash dividends on												
common stock.....	Bil. dol.	19.8	25.7	26.9	30.6	36.3	41.2	46.9	53.1	60.6	62.2	67.1
Industrial.....	Bil. dol.	13.6	17.0	17.6	20.2	23.9	26.6	30.3	34.5	38.7	39.4	42.1
Transportation.....	Bil. dol.	.5	.6	.6	.6	.8	.9	1.0	1.2	1.3	1.0	.9
Utilities.....	Bil. dol.	4.5	6.0	6.7	7.7	9.0	10.7	12.2	13.3	15.8	16.9	18.5
Finance.....	Bil. dol.	1.1	2.1	1.9	2.1	2.6	2.9	3.5	4.2	4.9	5.0	5.6

Source: New York Stock Exchange, Inc., New York, NY, *Fact Book*, annual.

No. 856. STOCK OWNERSHIP—CHARACTERISTICS OF SHAREOWNERS: 1970 TO 1983

[In thousands. Represents all publicly owned issues of common and preferred stocks including stock mutual funds. Based on national probability samples; see source for detailed explanation]

CHARACTERISTIC	1970	1975	1980	1981	1983	CHARACTERISTIC	1970	1975	1980	1981	1983
Total ¹	30,850	25,270	30,200	32,260	42,360	Income: ⁴					
Male	15,689	12,898	15,666	17,120	20,864	Under \$5,000.....	2,389	780	1,742	2,164	1,460
Female	15,161	12,508	14,534	15,140	21,496	\$5,000-\$9,999.....	5,779	2,636			
Age:						\$10,000-\$14,999.....	8,346	4,552	3,180	2,537	2,596
Under 21 years.....	2,221	1,818	2,308	2,321	2,749	\$15,000-\$24,999.....	7,670	8,778	6,930	6,829	8,579
21-34 years.....	4,500	2,838	6,407	7,653	10,552	\$25,000-\$49,999.....	4,114	5,226	11,623	12,090	17,168
35-44 years.....	5,801	3,976	5,925	5,624	8,346	\$50,000 and over.....		1,216	3,982	5,457	7,918
45-54 years.....	7,556	5,675	5,456	5,439	6,588	Residence by					
55-64 years.....	6,084	5,099	5,144	6,144	6,850	MSA size: ⁵					
65 years and over.....	4,330	5,800	4,589	5,079	7,277	Under 100,000.....	175	328	204	208	262
Education:						100,000-249,000.....	2,245	2,059	1,863	2,278	3,060
High school: ²						250,000-499,999.....	2,686	2,691	2,921	3,146	3,962
3 years or less.....	3,566	1,621	1,746	1,881	2,356	500,000-999,999.....	3,712	3,257	4,345	4,532	6,555
4 years.....	8,697	6,580	5,737	6,045	8,788	1,000,000 and					
College: ²						over.....	14,861	11,893	15,447	16,788	21,730
1-3 years.....	5,867	5,301	9,353	10,093	13,529	Nonmetropolitan					
4 years or more.....	9,999	9,888	10,613	11,880	14,735	areas.....	6,913	4,978	5,400	5,308	6,791
Minors ³	2,221	1,818	2,308	2,321	2,749						

¹ Includes small number of shareholders not distributed by breakdown. ² Persons 21 years old and over. ³ Shareowners whose stockholdings are registered in accordance with the Gifts to Minors Statutes. ⁴ Adult shareowners only.⁵ MSA=Metropolitan statistical area. Prior to 1983, designation was SMSA=standard metropolitan statistical area. For definition, see Appendix II.Source: New York Stock Exchange, Inc., New York, NY, *Shareownership*, 1970, 1975, 1980, 1981, and 1983.

No. 857. COMMODITY FUTURES TRADING ON U.S. EXCHANGES—VOLUME OF TRADING: 1970 TO 1983

[In thousands. 1970 for year ending June 30; thereafter, for years ending December 31]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Number of contracts traded	13,356	27,733	32,200	36,876	42,847	58,462	75,966	92,096	98,522	112,406	139,921
Grains and feeds ¹	5,977	13,420	14,595	17,261	19,668	22,365	27,695	36,337	32,308	26,760	37,206
Livestock and meat ²	2,574	4,629	5,680	5,325	5,686	9,680	11,802	11,639	9,378	11,702	10,176
Foods ³	3,458	4,154	3,692	3,868	5,161	5,149	5,925	8,659	7,255	6,600	8,893
Raw materials ⁴	351	1,465	1,609	2,778	2,763	3,389	4,618	5,598	4,905	6,110	8,308
Precious metals ⁵	995	3,828	6,376	7,209	8,232	13,963	17,996	13,171	15,690	18,809	22,552
Financial instruments ⁶	-	-	-	239	780	2,325	5,607	12,469	22,864	33,735	40,876
Currencies ⁷	1	241	228	198	586	1,561	2,222	4,223	6,122	8,690	11,911

- Represents zero. ¹ Wheat, corn, oats, rye, soybeans, soybean meal, sunflower seeds, milled rice, rough rice, and grain sorghums. ² Cattle, feeder cattle, hogs, pork bellies, imported lean beef, broilers, and turkeys. ³ Eggs, potatoes, coffee, cocoa, sugar, butter, orange juice, and edible oils. ⁴ Lumber, stud lumber, plywood, cotton, wool, oil and petroleum products, copper, lead, mercury, aluminum, zinc, nickel, rubber, and tin. ⁵ Gold, silver, silver coins, platinum, and palladium. ⁶ GNMA certificates; Treasury bills, bonds, and notes; commercial paper; domestic certificates of deposit (CD); Eurodollar CD; and stock indexes. ⁷ Italian lira, Canadian dollars, French francs, Deutsche marks, Dutch guilders, British pounds, Japanese yens, Swiss francs, Belgian francs, and Mexican pesos.Source: U.S. Commodity Futures Trading Commission, *Annual Report*. Data from Futures Industry Association, Washington, DC.

NO. 858. MUTUAL FUNDS—NET ASSETS, SALES, AND REDEMPTIONS: 1970 TO 1983

[In billions of dollars, except number of funds. See also *Historical Statistics, Colonial Times to 1970*, series X 536-539]

TYPE OF FUND	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Number of funds.....	361	421	431	426	452	477	505	524	564	669	857	1,026
Assets ¹	47.6	46.5	35.8	45.8	51.0	48.5	55.8	94.5	134.7	241.4	296.6	292.9
Money market funds.....	(x)	(x)	1.7	3.6	3.4	3.5	10.9	45.2	74.4	181.9	206.6	162.5
Equity funds.....	45.1	43.0	30.9	37.5	39.2	34.1	32.7	35.9	44.4	41.2	53.6	77.0
Income and bond funds.....	2.5	3.5	3.2	4.7	7.8	8.4	9.3	10.1	11.1	11.0	16.8	22.0
Municipal bond funds.....	(x)	(x)	(x)	(x)	.5	2.3	2.6	3.0	2.9	3.1	7.4	14.6
Limited maturity municipal bonds ² ..	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1.9	4.2	13.2	16.8
Sales ¹	4.6	4.4	5.3	10.1	13.7	17.1	37.2	119.3	247.5	472.2	627.0	547.8
Money market funds.....	(x)	(x)	2.2	6.8	9.4	10.7	30.5	111.9	232.2	451.9	581.8	483.0
Equity funds.....	4.2	3.9	2.6	2.6	2.7	2.4	2.8	3.1	5.6	6.0	8.3	22.4
Income and bond funds.....	.4	.5	.5	.7	1.2	1.6	2.0	2.0	2.6	2.3	4.0	8.8
Municipal bond funds.....	(x)	(x)	(x)	(x)	.5	2.1	1.8	1.7	1.8	1.5	3.5	9.1
Limited maturity municipal bonds ² ..	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	5.3	10.5	29.4	44.5
Redemptions ¹	3.0	5.7	3.9	9.6	16.4	16.7	31.5	86.9	216.5	362.6	588.4	565.8
Money market funds.....	(x)	(x)	.6	5.9	9.6	10.7	24.3	79.4	204.5	346.7	559.6	508.7
Equity funds.....	2.8	5.2	3.0	3.3	6.0	4.7	5.1	5.7	5.7	5.1	5.2	9.3
Income and bond funds.....	.2	.4	.3	.4	.8	.8	1.0	1.4	1.5	1.6	1.7	3.1
Municipal bond funds.....	(x)	(x)	(x)	(x)	(2)	.5	1.1	.9	1.0	.8	.7	2.3
Limited maturity municipal bonds ² ..	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	3.8	8.3	21.2	42.4

X Not applicable. Z Less than \$50 million. ¹ Includes funds not shown separately. ² The average maturity of the portfolio is generally less than two years.

Source: Investment Company Institute, Washington, DC, *Mutual Fund Fact Book*, annual.

NO. 859. U.S. LIFE INSURANCE COMPANIES—SUMMARY: 1970 TO 1983

[As of December 31 or calendar year as applicable. Covers domestic and foreign business of U.S. companies. See also *Historical Statistics, Colonial Times to 1970*, series X 879 and X 890-907]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
U.S. companies.....	Number.....	1,780	1,746	1,742	1,789	1,840	1,895	1,958	1,991	2,060	2,125
Sales ¹	Bil. dol.....	206.8	316.5	352.2	407.7	437.9	526.8	654.7	1,136.6	919.9	1,278.9
Ordinary.....	Bil. dol.....	134.8	207.1	233.6	277.3	304.2	359.1	461.5	700.1	661.1	971.9
Group ¹	Bil. dol.....	65.4	102.7	112.2	123.8	127.7	162.4	189.6	436.0	256.9	305.5
Industrial.....	Bil. dol.....	6.6	6.7	6.4	6.5	6.0	5.3	3.6	2.5	1.9	1.5
Voluntary termination, ordinary policies.....											
All policies in force in U.S.....	Rate.....	5.9	6.7	6.8	6.6	6.6	7.2	8.1	8.9	10.0	11.0
In force 2 years or more.....	Rate.....	3.9	4.5	4.6	4.7	4.6	5.1	5.8	6.6	7.6	8.6
Income.....	Bil. dol.....	49.1	78.0	88.6	98.0	108.2	119.1	130.9	151.9	170.0	176.0
Life insurance premiums.....	Bil. dol.....	21.7	29.3	31.4	33.8	36.8	39.1	40.8	46.3	50.8	50.3
Percent of total.....	Percent.....	44.2	37.6	35.4	34.5	33.8	32.8	31.2	30.5	29.9	28.6
Annuity considerations.....	Bil. dol.....	3.7	10.2	14.0	15.0	16.3	17.9	22.4	27.6	34.6	30.5
Health insurance premiums.....	Bil. dol.....	11.4	19.1	21.1	23.6	25.8	27.9	29.4	31.8	35.0	38.2
Investment and other.....	Bil. dol.....	12.3	19.4	22.2	25.7	29.4	34.2	36.3	46.2	49.6	57.0
Disbursements.....	Bil. dol.....	39.0	58.2	63.0	69.0	72.6	81.1	88.2	101.8	113.3	123.5
Payments to policyholders ²	Bil. dol.....	25.6	38.1	41.0	44.4	47.8	53.7	59.0	65.1	71.2	80.9
Percent of total.....	Percent.....	65.6	65.5	65.1	64.3	65.8	66.2	66.9	63.9	62.8	65.5
Death payments.....	Bil. dol.....	7.2	9.3	9.7	10.2	11.1	11.8	12.9	13.6	14.5	16.8
Matured endowments.....	Bil. dol.....	1.0	1.0	1.0	.9	.9	.8	.7	.6	.6	.6
Annuity payments.....	Bil. dol.....	1.7	3.2	3.9	4.6	5.1	6.6	7.4	9.6	10.3	12.7
Policy dividends.....	Bil. dol.....	3.8	5.1	5.6	6.3	6.8	7.6	8.1	9.3	9.6	10.8
Surrender values.....	Bil. dol.....	2.9	3.8	4.2	4.3	4.5	5.5	6.4	7.1	9.8	12.5
Disability benefits.....	Bil. dol.....	.2	.4	.5	.5	.5	.6	.5	.5	.5	.5
Commissions, expenses, etc.....	Bil. dol.....	12.9	19.4	21.3	23.9	23.7	25.9	27.9	35.1	40.3	40.7
Dividends to stockholders.....	Bil. dol.....	.5	.7	.7	.8	1.1	1.5	1.4	1.6	1.8	1.9
Taxes, licenses and fees.....	Bil. dol.....	2.2	3.5	4.0	4.4	5.1	5.5	4.8	4.2	4.4	4.3
Federal income taxes.....	Bil. dol.....	1.2	1.9	2.2	2.5	3.0	3.3	2.6	1.8	1.6	1.2
Employed in insurance ⁴	1,000.....	1,460	1,640	1,675	1,715	1,775	1,830	1,880	1,905	1,970	1,970

¹ Includes Servicemen's Group Life Insurance of \$16.8 billion in 1970, \$1.7 billion in 1975, and \$45.6 billion in 1981, as well as \$84.4 billion of Federal Employees' Group Life Insurance in 1981. ² Rate is ratio of number of policies lapsed or surrendered (for cash, extended term), less reinstatements, to mean number of policies in force, includes foreign companies' policies, primarily Canadian. ³ Includes operations of accident and health departments of life insurance companies, not shown separately. ⁴ Includes life, health, and property/casualty insurance.

Source: American Council of Life Insurance, Washington, DC. Based on data from *Life Insurance Fact Book*, and unpublished data.

NO. 860. LIFE INSURANCE IN FORCE IN THE U.S.—SUMMARY: 1970 TO 1983

[As of December 31 or calendar year, as applicable. Covers life insurance with life insurance companies only. Represents all life insurance in force on lives of U.S. residents whether issued by U.S. or foreign companies. "Families" includes families, subfamilies, and unrelated individuals; see definitions, p. 4. See also *Historical Statistics, Colonial Times to 1970*, series X 879-889]

YEAR	LIFE INSURANCE IN FORCE						COVERAGE (\$1,000)		Dispos- able person- al income per family (\$1,000)	AVERAGE SIZE POLICY IN FORCE (dollars)			
	All poli- cies, num- ber (mil.)	Value (bil. dol.)					Per fam- ily	Per in- sured fam- ily		Ordinary	Group	Indus- trial	Cred- it ¹
		Total	Ordinary	Group	Indus- trial	Cred- it ¹							
1970	355	1,402	731	545	38.6	87.9	20.7	24.4	10.3	6,110	6,910	500	1,000
1971	357	1,503	788	581	39.2	95.0	21.7	25.5	10.8	6,440	7,170	520	1,080
1972	365	1,628	849	631	40.0	108.8	22.9	26.9	11.4	6,790	7,730	530	1,190
1973	369	1,778	928	708	40.6	101.2	24.4	28.8	12.6	7,230	8,010	540	1,300
1974	380	1,985	1,009	827	39.4	109.6	26.5	31.2	13.3	7,690	8,840	550	1,310
1975	380	2,140	1,083	905	39.4	112.0	28.1	33.0	14.4	8,090	9,360	570	1,410
1976	382	2,343	1,178	1,003	39.2	123.6	30.1	35.0	15.3	8,610	10,010	580	1,580
1977	390	2,583	1,289	1,115	39.0	139.4	32.4	37.7	16.5	9,240	10,550	590	1,780
1978	401	2,870	1,425	1,244	38.1	163.1	35.1	40.8	17.9	10,010	11,260	600	1,950
1979	407	3,222	1,586	1,419	37.8	179.3	38.5	44.8	19.6	10,890	12,350	610	2,120
1980	402	3,541	1,761	1,579	36.0	185.2	41.5	48.3	21.4	11,920	13,410	620	2,110
1981	400	4,064	1,978	1,889	34.5	182.4	45.7	53.2	22.7	13,310	15,400	630	2,220
1982	390	4,477	2,217	2,066	32.8	181.1	49.3	57.3	23.9	15,140	16,630	630	2,410
1983	387	4,966	2,544	2,200	31.4	170.7	54.2	63.0	25.5	17,380	17,530	630	2,650

¹ Insures borrower to cover loan in case of death.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

NO. 861. LIFE INSURANCE—INSURANCE IN FORCE AND BENEFIT PAYMENTS BY STATE: 1983

[Applies to policyholders and payments in the U.S.]

REGION, DIVISION, AND STATE	INSURANCE IN FORCE			Benefit pay-ments ¹ (mil. dol.)	DIVISION AND STATE	INSURANCE IN FORCE			Benefit pay-ments ¹ (mil. dol.)
	Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)			Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)	
U.S.	387,106	4,966	54,200	51,660	So. Atl.	75,200	610	53,100	7,690
Region:					DE	1,526	20	83,800	167
Northeast	79,130	1,088	56,300	13,281	MD	7,731	98	59,500	979
Midwest	100,570	1,304	57,100	14,397	DC	2,268	35	119,000	237
South	148,954	1,634	53,400	14,765	VA	11,358	126	60,300	1,096
West	58,452	940	49,700	9,417	WV	3,092	30	40,800	307
N. Eng.	20,419	279	55,900	3,421	NC	12,469	117	49,900	1,043
ME	1,833	19	41,400	224	SC	7,768	63	52,400	488
NH	1,547	20	52,000	212	GA	12,462	128	59,500	972
VT	801	10	44,500	112	FL	16,526	193	42,700	2,391
MA	8,630	125	53,400	1,558	E. So. Cent.	30,945	275	49,700	2,426
RI	1,863	21	55,000	244	KY	6,135	60	43,100	579
CT	5,525	84	70,000	1,071	TN	9,423	96	54,800	888
Mid. Atl.	58,711	809	56,400	9,650	AL	11,609	79	54,100	646
NY	25,053	382	54,900	4,581	MS	3,778	40	42,900	313
NJ	11,565	184	65,600	2,225	W. So. Cent.	42,809	549	55,800	4,659
PA	22,093	243	53,000	3,054	AR	2,738	35	39,900	324
E. No. Cent.	71,833	910	57,200	10,412	LA	9,890	96	58,600	804
OH	18,474	232	56,900	2,840	OK	4,824	67	50,900	596
IN	9,625	114	53,700	1,283	TX	25,357	351	58,500	2,935
IL	20,777	272	61,200	3,017	Mt.	17,539	252	51,800	2,382
MI	15,429	199	57,700	2,206	MT	1,118	16	45,000	147
WI	7,528	93	50,900	1,066	ID	1,342	18	47,500	162
W. No. Cent.	28,737	394	57,000	3,985	WY	665	11	52,100	97
MN	6,306	95	58,800	910	CO	4,936	80	60,600	710
IA	4,836	67	57,500	806	NM	1,706	25	48,100	233
MO	8,690	108	54,400	1,037	AZ	4,151	55	47,400	599
ND	1,048	16	59,100	126	UT	2,195	30	54,300	274
SD	979	14	51,400	134	NV	1,426	18	45,900	160
NE	2,686	38	60,000	416	Pac.	40,913	888	48,900	7,035
KS	4,192	56	57,800	556	WA	5,216	83	46,300	867
					OR	3,170	50	43,700	529
					CA	29,773	517	49,900	5,298
					AK	803	12	61,500	73
					HI	1,951	26	69,300	268

¹ Comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

No. 862. U.S. LIFE INSURANCE COMPANIES—FINANCIAL ITEMS: 1970 TO 1983

[In billions of dollars, except percent. As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 908-917]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Assets	207.3	263.3	269.3	321.8	351.6	390.0	432.3	479.2	525.8	588.2	654.9
Government securities.....	11.1	12.0	15.2	20.3	23.6	26.5	29.7	33.0	39.5	55.5	76.6
Corporate securities.....	88.5	118.6	133.9	154.9	171.7	191.6	208.8	227.0	241.5	268.5	297.0
Percent of total assets.....	42.7	45.0	46.3	48.2	48.8	49.1	48.3	47.4	45.9	45.7	45.3
Bonds.....	73.1	96.7	105.8	120.7	137.9	156.0	169.0	179.6	193.8	212.8	232.1
Stocks.....	15.4	21.9	28.1	34.3	33.8	35.5	39.8	47.4	47.7	55.7	64.9
Mortgages.....	74.4	86.2	89.2	91.6	96.8	106.2	118.4	131.1	137.7	142.0	151.0
Real estate.....	8.3	8.3	9.6	10.5	11.1	11.8	13.0	15.0	18.3	20.6	22.2
Policy loans.....	16.1	22.9	24.5	25.8	27.6	30.1	34.8	41.4	48.7	53.0	54.1
Other.....	10.9	15.4	16.9	18.5	21.1	23.7	27.6	31.7	40.1	48.6	54.0
Interest earned on assets ¹ (percent).....	5.30	6.25	6.36	6.55	6.89	7.31	7.73	8.02	8.57	8.91	8.96
Liabilities ²	189.9	244.7	268.7	299.5	328.1	363.7	402.3	444.8	488.4	546.7	608.5
Policy reserves ²	167.8	216.5	237.1	262.8	287.9	318.5	351.6	390.4	428.0	479.4	532.4
Capital and surplus ²	17.3	18.6	20.6	22.0	23.6	26.2	30.0	34.4	37.4	41.5	46.4

¹ Net rate. ² Includes business of accident and health departments of U.S. life insurance companies.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

No. 863. U.S. LIFE INSURANCE COMPANIES—NEW LONG-TERM INVESTMENTS: 1970 TO 1983

[In billions of dollars, except percent. Long-term investments are investments of over 1 year in length. Minus sign (—) indicates decrease]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total	23.9	37.3	39.6	35.5	42.5	55.4	66.6	68.8	72.6	77.9	83.7	110.5	169.9
Annual percent change.....	—3	24.9	6.2	—10.2	16.7	30.2	20.3	3.2	5.6	7.3	7.4	32.1	53.7
Government securities.....	.8	1.6	1.4	1.5	3.7	7.3	7.5	6.5	6.9	7.0	10.6	24.3	49.1
Corporate securities.....	10.9	22.7	20.9	16.1	22.5	31.7	37.8	38.0	33.5	36.4	42.5	58.8	86.9
Bonds.....	6.8	14.2	12.7	11.3	16.6	24.0	30.2	28.0	23.1	22.3	23.0	33.0	50.8
Stocks.....	4.1	8.5	8.2	4.8	5.9	7.7	7.6	8.0	10.4	14.1	19.5	25.8	36.1
Mortgages.....	7.2	8.7	11.5	11.3	9.6	9.8	14.2	17.8	20.7	19.7	13.5	11.5	20.1
Real estate.....	.9	1.0	1.2	1.3	2.1	1.8	2.0	2.2	2.8	3.3	4.5	4.5	4.3
Policy loans.....	4.1	3.3	4.6	5.3	4.6	4.8	5.1	6.3	8.7	11.5	12.6	11.4	9.5

¹ Change from prior year shown; for 1970, change from 1969. For explanation of annual percent change, see Guide to Tabular Presentation.

Source: American Council of Life Insurance, Washington, DC, *Life Insurance Fact Book*, annual.

No. 864. PROPERTY AND LIABILITY INSURANCE: 1970 TO 1982

[In millions of dollars, except companies reporting. Premiums written represent total premiums on all insurance policies written by companies, with inception dates in years shown. Minus sign (—) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series X 918, 923, 928, 933, and 940]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Companies reporting.....	2,727	2,934	2,886	2,880	2,940	2,938	2,867	2,867	2,953	2,994
Premiums written ¹	32,867	45,152	49,967	60,418	72,397	81,690	90,123	95,569	99,276	103,968
Auto liability.....	8,958	12,010	13,315	16,052	18,829	20,383	22,102	23,319	24,395	26,226
Physical damage, auto.....	4,824	7,064	7,623	9,565	11,521	12,835	14,538	15,833	16,748	18,005
Liability, other than auto.....	2,140	2,990	3,981	5,384	6,794	7,706	7,817	7,892	7,385	7,159
Medical malpractice.....	(NA)	(NA)	895	1,133	1,194	1,218	1,204	1,276	1,338	1,490
Fire ²	3,147	3,538	3,691	4,102	4,415	4,675	4,781	4,784	4,817	4,836
Homeowners multiple peril.....	2,565	4,156	4,729	5,689	6,766	7,792	8,792	9,821	10,780	11,747
Commercial multiple peril.....	1,331	2,857	3,176	4,052	4,891	5,830	6,667	6,886	6,870	7,009
Workers' compensation.....	3,492	5,473	6,186	7,534	9,261	11,300	13,164	14,239	14,616	13,945
Inland marine.....	812	1,169	1,265	1,444	1,584	1,887	2,061	2,291	2,428	2,510
Ocean marine.....	465	765	861	902	955	1,000	1,009	1,065	1,127	1,101
Surety and fidelity.....	562	748	789	835	912	1,076	1,155	1,248	1,351	1,454
Burglary and theft.....	135	130	129	124	129	133	140	136	128	115
Crop-hail.....	125	260	312	325	340	351	396	417	504	532
Boiler and machinery.....	115	141	173	170	213	256	283	293	298	293
Glass.....	40	34	32	32	34	35	33	32	31	29
Statutory underwriting gain.....	77	—1,878	—3,594	—1,559	1,926	2,548	24	—1,712	—4,464	—8,303
Policyholders' dividends.....	504	767	633	630	815	1,252	1,324	1,622	1,824	1,987
Net underwriting gain.....	—426	—2,645	—4,227	—2,189	1,112	1,296	—1,301	—3,334	—6,286	—10,290
Net investment income.....	³ 2,005	³ 3,833	³ 4,150	³ 4,806	5,816	7,290	9,279	11,063	³ 13,248	³ 14,907
Net income before taxes.....	1,579	1,188	77	2,617	6,928	8,588	7,978	7,730	6,961	4,617
Assets	³ 58,594	³ 82,115	³ 94,118	105,586	128,613	149,097	174,228	197,661	212,302	231,693
Policyholders' surplus.....	³ 18,520	³ 20,898	³ 25,303	24,678	29,300	35,379	42,456	52,196	53,804	60,395

NA Not available. ¹ Total includes all property, liability, and allied lines; other data are for principal lines only.

² Includes extended coverage and allied lines. ³ Includes duplication because of interownerships within company groups.

Source: Insurance Information Institute, New York, NY, *Insurance Facts*, annual. Data from A. M. Best Company, Oldwick, NJ.

NO. 865. AUTOMOBILE INSURANCE: 1970 TO 1983

[In millions of dollars, except as indicated. Premiums earned basis. See also *Historical Statistics, Colonial Times to 1970*, series Q 163-174]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	
									Private passenger	Commercial
Companies reporting	925	1,275	1,363	1,381	1,399	1,470	1,507	1,531	1,571	
Total insurance:										
Premiums earned.....	14,612	23,860	29,074	32,393	35,366	37,621	39,762	42,608	40,587	7,649
Losses paid ¹	11,198	19,657	20,264	22,755	26,130	27,887	30,605	35,106	32,453	6,745
Percent of premiums.....	76.6	82.4	69.7	70.2	73.9	74.1	77.0	82.4	80.0	88.2
Bodily injury liability: ²										
Premiums earned.....	9,559	15,150	18,130	19,997	21,544	22,480	23,623	25,390	23,797	4,838
Losses paid ¹	7,547	12,277	13,063	14,252	16,016	17,221	19,154	21,807	20,428	4,491
Percent of premiums.....	79.0	81.0	72.1	71.3	74.3	76.6	81.1	85.9	85.8	92.8
Physical damage: ³										
Premiums earned.....	5,053	8,710	10,944	12,396	13,822	15,141	16,190	17,215	16,790	2,810
Losses paid ¹	3,651	7,380	7,201	8,503	10,114	10,665	11,452	13,130	12,025	2,254
Percent of premiums.....	72.3	84.7	65.8	68.6	73.3	70.4	71.0	76.3	71.6	80.2

¹ Includes adjusting expenses.

² Includes property damage.

³ Covers auto fire, theft, collision, and comprehensive.

Source: The National Underwriter Co., Cincinnati, OH, *Argus F. C. & S. Chart*, annual (copyright).

NO. 866. PRIVATE HEALTH INSURANCE ORGANIZATIONS—INCOME AND EXPENSES: 1970 TO 1982

[In millions of dollars, except percent. Minus sign (—) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series X 857-862]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
All organizations:											
Total premium income.....	17,075	24,845	27,777	32,437	38,172	44,619	49,692	55,859	63,624	73,184	84,245
Claims expense.....	15,619	21,091	24,486	30,072	35,471	40,013	45,044	50,176	58,619	66,773	76,611
Percent of premium income.....	91.5	84.9	88.1	92.7	92.9	89.7	90.6	89.8	92.1	91.2	90.9
Operating expense.....	2,390	3,468	3,887	4,193	4,789	5,464	6,194	7,116	8,207	9,667	11,153
Net underwriting gain.....	-934	286	-576	-1,828	-2,088	-858	-1,546	-1,433	-3,202	-3,256	-3,519
Blue Cross-Blue Shield:											
Premium income.....	7,371	11,059	12,367	14,446	17,268	19,553	21,547	23,471	26,334	30,447	34,338
Claims expense.....	7,060	10,004	11,640	14,192	16,227	17,628	19,465	21,724	25,466	29,209	32,357
Operating expense.....	534	775	911	1,063	1,193	1,330	1,502	1,716	1,951	2,250	2,476
Net underwriting gain.....	-224	280	-184	-809	-151	597	580	31	-1,083	-1,012	-495
Insurance companies:											
Premium income.....	8,636	11,944	13,151	14,849	16,752	19,335	20,867	23,035	25,131	27,690	31,400
Claims expense.....	7,531	9,480	10,802	13,157	15,493	17,208	19,057	20,145	21,678	23,256	26,196
Net underwriting gain.....	-1,597	-108	-475	-1,216	-2,064	-1,623	-2,359	-1,783	-1,989	-1,745	-1,720
Other plans: Premium income.....	1,068	1,842	2,259	3,142	4,151	5,730	7,279	9,353	12,159	15,047	16,507

Source: Through 1975, U.S. Social Security Administration, *Social Security Bulletin*, various issues, and unpublished data; thereafter, U.S. Health Care Financing Administration, *Health Care Financing Review*, Summer 1981, and unpublished data.

NO. 867. HEALTH INSURANCE—PREMIUM INCOME AND BENEFIT PAYMENTS: 1970 TO 1982

[In billions of dollars. Represents premium income of and benefits paid by insurance companies only. Beginning 1975, includes Puerto Rico and other U.S. outlying areas. Excludes Blue Cross-Blue Shield plans, medical-society sponsored plans, and all other independent plans]

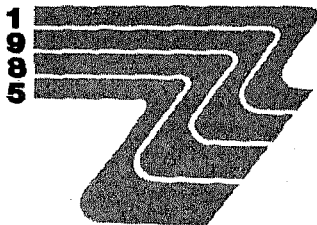
ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Premiums ¹	11.5	14.8	16.1	17.9	20.8	24.5	28.7	32.7	37.9	43.7	49.0	58.3
Group policies ²	8.1	10.9	11.8	13.2	15.9	19.4	23.2	26.9	31.7	36.8	42.5	50.0
Individual and family policies.....	3.4	3.8	4.3	4.7	4.9	5.1	5.4	5.8	6.2	6.9	6.5	8.3
Benefit payments ³	9.1	10.6	11.9	13.6	16.5	20.2	22.1	26.4	31.7	37.0	41.6	49.2
Group policies.....	7.5	8.9	9.8	11.4	14.2	17.8	19.5	22.9	27.9	33.0	37.7	44.2
Individual and family policies.....	1.6	1.7	2.1	2.2	2.3	2.4	2.6	3.5	3.8	4.0	3.9	4.9
Type of coverage:												
Loss of income.....	1.8	2.0	2.2	2.5	2.7	2.9	3.1	3.4	4.7	5.3	5.2	5.5
Medical expense.....	7.1	8.5	9.4	10.8	13.2	16.1	17.6	21.2	24.8	28.9	33.0	39.6
Dental.....	.1	.2	.3	.3	.6	1.2	1.5	1.8	2.2	2.8	3.5	4.0

¹ 1970 refers to written premiums; thereafter, refers to earned premiums.

² Beginning 1975, insurance company group premiums and benefit payments include Administrative Service Agreements and Minimum Premium Plans. Amounts for prior years contain only a portion of these data.

³ Beginning 1972, excludes accidental death and dismemberment benefits and accident medical reimbursement benefits.

Source: Health Insurance Association of America, Washington, DC, *Source Book of Health Insurance Data*, annual through 1982-83 edition.



This section relates to the place and behavior of the business firm, and to business initiative in the American economy. It includes data on the number, type, and size of businesses; financial data of domestic and multinational U.S. corporations and their foreign affiliates; business investment, expenditures, and profits; business sales and inventories; consumer cooperatives; and business failures. Additional business data may be found in other sections, particularly 29 and 30.

The principal sources of these data are the *Survey of Current Business*, published by the Bureau of Economic Analysis (BEA); the *Federal Reserve Bulletin*, issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service (IRS); *The Failure Record Through (Year)*, issued by the Dun & Bradstreet Corporation, New York; and *Fortune* and *The Fortune Directory*, issued by Time, Inc., New York. Other sources are publications of the Securities and Exchange Commission (SEC), the Bureau of the Census, and the Administrative Office of the United States Courts.

Business firms.—A firm is generally defined as a business organization under a single management and may include one or more establishments (i.e., a single physical location at which business is conducted). The terms firm, business, company, and enterprise are used interchangeably throughout this section. A firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The industrial classification is based on the *Standard Industrial Classification (SIC) Manual* (see text, page 388).

The IRS concept of a business firm relates primarily to the legal entity used for tax reporting purposes. The IRS *Statistics of Income* reports present data, based on a sample of tax returns before audit, separately for sole proprietorships, partnerships, and active corporations. A *sole proprietorship* is an unincorporated business owned by one person. Sole proprietorships include the entire range of unincorporated, one-owner businesses, farms, and professional practices, from large enterprises with many employees and hired managers to the part-time operations in which the owner is the only person involved. A *partnership* is an unincorporated business owned by two or more persons, each of whom has a financial interest in the business. The "persons" could be individuals, estates, trusts, or corporations. A *corporation* is a business that is legally incorporated under State laws. The IRS recognizes many types of businesses as corporations, including joint-stock companies; mutual and other insurance companies; and unincorporated associations such as business trusts, mutual savings and loan associations, certain partnerships, mutual savings banks, and cooperative banks. While many corporations file consolidated tax returns, most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

Assets and liabilities.—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the IRS presents balance sheet and income estimates for all active U.S. corporations. The Bureau of the Census issues the *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations* (QFR), which presents quarterly income account and balance sheet data for manufacturing, mining, and trade industries. The Federal Trade Commission issues *Working Capital of U.S. Nonfinancial Corporations*, which presents data on components of current assets and liabilities of all nonfinancial U.S. corporations. Both of these reports were prepared by the Federal Trade Commission until responsibilities for QFR were transferred to Census beginning with the 4th quarter 1982 report.

One of the most comprehensive measures of the investment position of the business sector (and the only measure adjusted to current replacement cost) is the BEA capital stock series. See *Fixed Reproducible Tangible Wealth in the United States, 1925-79*, and periodic updates in the *Survey of Current Business*.

Income, profits, dividends, and taxes.—Several agencies, among them IRS and BEA, compile corporate income account data. These data, however, are not comparable because of differing methods of compilation. A reconciliation of the two can be found in table 8.12 of *National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business* (normally the July issue), published by BEA. The IRS publishes financial data for all business enterprises. These data appear in *Statistics of Income—Partnership Returns, Sole Proprietorship Returns, and Corpo-*

ration Income Tax Returns. Supplemental reports published periodically present data on international income and taxes reported by U.S. corporations.

The corporate data issued by BEA are a part of its national income and product accounts (see text, p. 427) and are defined as required for purposes of national income estimation. The primary sources for BEA estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to IRS. Various adjustments of IRS data are required by the national income treatment—particularly with respect to profits which would be disclosed if all tax returns were audited; depletion; capital gain or loss; treatment of bad debts; measurement of income received from abroad; and intercorporate dividends—to make the figures comparable with other entries in the national income accounts. For a discussion of two types of adjustments (inventory valuation and capital consumption), see text, page 427. The BEA's corporate profits data also include net earnings of Federal Reserve banks, credit unions, private noninsured pension funds, and several quasi-government credit agencies not included in IRS data.

Sources and uses of corporate funds.—These data (table 905) show capital requirements of corporations and the manner in which they are financed. Sources of funds should be equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) net purchases of land. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

Plant and equipment expenditures.—Estimates of actual and planned expenditures for new plant and equipment in the United States by most private, nonagricultural business firms are based on quarterly sample surveys conducted by the Bureau of Economic Analysis.

For quarterly data, see current issues of the *Survey of Current Business*. For discussion of coverage, concepts, and methodology, see October 1980 issue of the *Survey*; for methodology used to derive the constant-dollar estimates, see the September 1981 issue of the *Survey*.

Sales and inventories.—Sales are estimated aggregate values, and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories (see table 901) are based on data from censuses (conducted every five years, for years ending in "2" and "7") and annual surveys. Monthly data for manufacturing appear in the Bureau of the Census Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders*, series M3-1; for data on retail and wholesale trade, see Section 30.

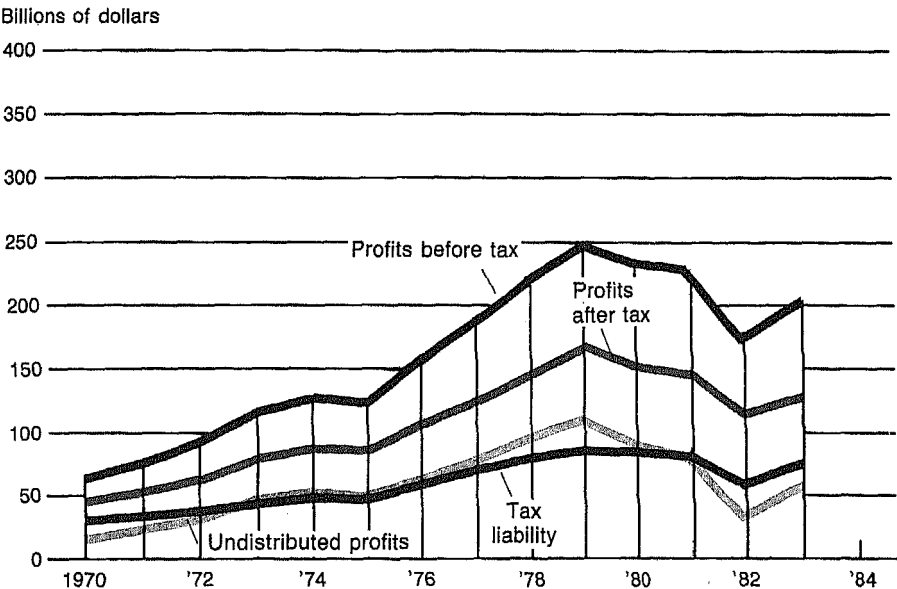
Sales, assets, net income, stockholder's equity, and total returns to investors.—Sales include service and rental revenues but exclude dividends, interest, and other non-operating revenues. All companies on the list must have derived more than 50 percent of their sales from manufacturing and/or mining. Sales of subsidiaries are included when they are consolidated. **Assets** are those shown at the company's year-end. **Net Income** is shown after taxes and after extraordinary credits or charges when any are shown on the income statement. **Stockholder's equity** is the sum of capital stock, surplus and retained earnings at the company's year-end. Redeemable preferred stock is excluded when its redemption is either mandatory or outside the control of the company, except in the case of cooperatives. **Total returns to investors** include both price appreciation and dividend yield. Returns are adjusted for stock splits, stock dividends, recapitalizations, and corporate reorganizations as they occur. For further discussion, see Time, Inc., New York, NY, *The Fortune Directory*, May and June issues.

Economic censuses.—The economic censuses constitute comprehensive and periodic canvasses of the Nation's industrial and business activities. The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. Minerals data were collected in 1840. The first censuses of construction and business were taken for 1929. An integrated economic census program was begun for 1954. In that year, the censuses covered the retail and wholesale trades, selected service industries, manufactures, and mineral industries. The economic censuses are taken at 5-year intervals covering years ending in "2" and "7".

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

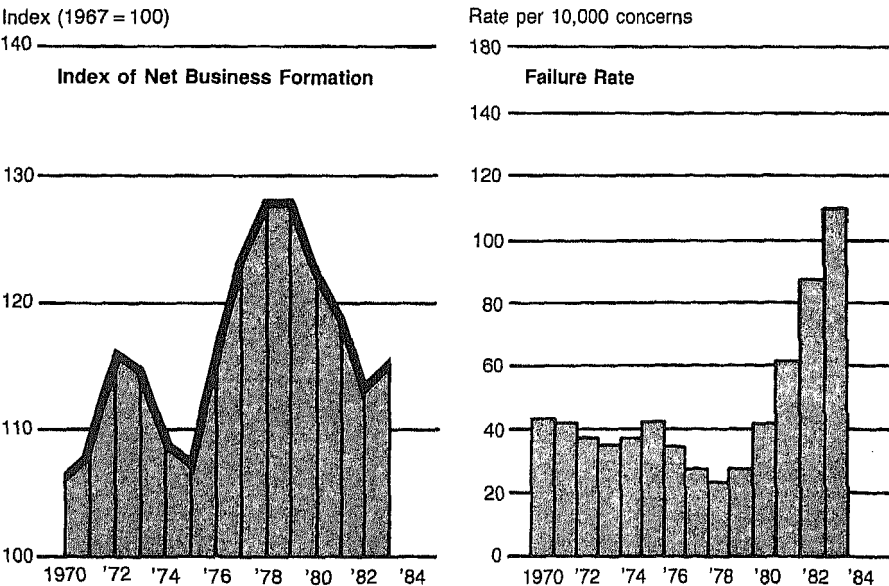
Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 18.1
Corporate Profits: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 906.

Figure 18.2
Index of Net Business Formation and Business Failure Rate: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 876.

NO. 868. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY TYPE OF BUSINESS: 1970 TO 1981

[Figures are estimates based on samples; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see tables 888-890]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981
Number	1,000	12,001	13,979	14,536	14,741	15,629	16,187	16,793	16,458
Receipts	Bil. dol.	2,082	3,685	4,170	4,699	5,377	6,345	7,159	7,821
Net income (less deficit) ²	Bil. dol.	109	196	245	283	320	361	302	259
Proprietorships, number ³	1,000	9,400	10,882	11,358	11,346	12,018	12,330	12,702	12,185
Business receipts ¹	Bil. dol.	238	339	375	394	443	488	506	523
Net income (less deficit) ²	Bil. dol.	33	45	50	51	59	61	55	48
Partnerships, number	1,000	936	1,073	1,096	1,153	1,234	1,300	1,380	1,481
Total receipts ¹	Bil. dol.	93	147	160	177	219	258	292	272
Net income (less deficit) ²	Bil. dol.	10	8	10	13	14	15	8	-3
Corporations, number	1,000	1,665	2,024	2,082	2,242	2,377	2,557	2,711	2,812
Total receipts ¹	Bil. dol.	1,751	3,199	3,635	4,128	4,715	5,599	6,361	7,026
Net income (less deficit) ²	Bil. dol.	66	143	185	219	247	285	239	214

¹ See footnote 1, table 871. ² See footnote 2, table 871. ³ Individually owned businesses and farms. ⁴ Total taxable receipts before deduction of cost of goods sold, cost of operations, and net loss from sales of property other than capital assets. Includes business receipts, interest, and receipts not specified.

⁵ Includes constructive taxable income from related foreign corporations.

NO. 869. NUMBER OF RETURNS AND BUSINESS RECEIPTS, BY SIZE OF RECEIPTS AND TYPE OF BUSINESS: 1975 TO 1981

[See headnote, table 871, and *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see tables 888-890]

SIZE-CLASS OF RECEIPTS	1975		1980		1981							
	Re- turns (1,000)	Re- ceipts (bil. dol.)	Re- turns (1,000)	Re- ceipts (bil. dol.)	Returns (1,000)				Receipts (bil. dol.)			
					Total	Non- farm pro- pri- etor- ships	Part- ner- ships ¹	Cor- por- ations ¹	Total	Non- farm pro- pri- etor- ships	Part- ner- ships ¹	Cor- por- ations ¹
Total	13,979	3,447	16,793	5,523.4	13,658	9,585	1,461	2,812	6,934.2	427.0	262.5	6,244.7
Under \$25,000 ²	9,107	55	10,290	64.7	8,028	6,695	748	585	46.8	42.5	1.5	2.8
\$25,000-\$49,999	1,519	53	1,811	63.6	1,474	1,100	164	210	49.9	39.3	4.1	6.5
\$50,000-\$99,999	1,247	86	1,589	110.6	1,352	860	180	312	90.8	60.4	9.4	21.0
\$100,000-\$499,999	1,575	330	2,202	473.6	2,068	817	278	973	439.3	181.5	47.1	230.7
\$500,000-\$999,999	249	169	412	282.2	423	80	51	292	282.4	54.3	26.6	201.5
\$1,000,000 or more	284	2,754	488	5,528.6	512	33	39	440	6,023.8	69.0	172.7	5,782.1
PERCENT DISTRIBUTION												
Under \$25,000 ²	65.1	1.6	61.3	1.0	57.9	70.0	51.2	20.8	.7	10.0	.6	(2)
\$25,000-\$49,999	10.9	1.5	10.8	1.0	10.6	11.5	12.2	7.5	.7	9.2	1.6	.1
\$50,000-\$99,999	8.9	2.5	9.5	1.7	9.8	9.0	11.3	11.1	1.3	14.2	3.6	.3
\$100,000-\$499,999	11.3	9.6	13.1	7.3	14.9	8.5	19.0	34.6	6.3	37.8	18.0	3.7
\$500,000-\$999,999	1.8	4.9	2.5	4.3	3.1	.8	3.5	10.4	4.1	12.7	10.1	3.2
\$1,000,000 or more	2.0	79.9	2.9	84.8	3.7	.3	2.7	15.7	86.9	16.2	65.8	92.6

Z Less than .05 percent.

¹ Business receipts. Active firms only.

² Includes firms with no receipts.

Source of tables 868 and 869: U.S. Internal Revenue Service, 1975, *Statistics of Income, Business Income Tax Returns*, annual; thereafter, *Statistics of Income, Sole Proprietorship Returns*, annual; *Statistics of Income, Partnership Returns*, annual; and *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 870. FEDERAL GOVERNMENT LOANS TO ALL SMALL BUSINESSES: 1970 TO 1983

[For years ending June 30 except, beginning 1977 ending Sept. 30. A small business must be independently owned and operated, must not be dominant in its particular industry, and must meet standards set by the Small Business Administration as to its annual receipts or number of employees]

LOANS APPROVED	Unit	1970- 1983, avg.	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Loans, all businesses	1,000	25.9	15.1	22.3	26.1	31.8	31.7	30.2	31.7	28.7	15.4	19.2
Minority-operated businesses	1,000	6.0	6.3	5.4	5.5	6.2	6.1	5.5	6.0	5.2	2.5	2.7
Percent of all businesses	Percent	23	41	24	21	19	19	18	19	18	16	14
Value of total loans	Mill. dol.	2,397	710	1,594	2,071	3,049	3,314	3,407	3,858	3,668	2,038	3,007
Loans to minority-operated businesses	Mill. dol.	313	160	229	262	352	402	428	470	454	238	295
Percent of all loans	Percent	13	23	14	13	12	12	13	12	12	12	10

Source: U.S. Small Business Administration, unpublished data.

NO. 871. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY AND TYPE OF BUSINESS: 1981

[Figures are estimates based on sample of unaudited tax returns; see Appendix III. Due to minor variations in estimating techniques, totals differ slightly from those shown in other IRS tables in this section. For further information regarding corporations, see tables 888-890. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	NUMBER OF RETURNS (1,000)			BUSINESS RECEIPTS ¹ (bil. dol.)			NET INCOME (less deficit) ² (bil. dol.)		
	Nonfarm proprietor- ships	Active partner- ships	Active corpora- tions	Nonfarm proprietor- ships	Active partner- ships	Active corpora- tions	Nonfarm proprietor- ships	Active partner- ships	Active corpora- tions
Total ³.....	9,585	1,461	2,812	427.1	4282.3	6,244.7	53.1	-2.7	213.6
Agriculture, forestry, and fishing.....	256	125	85	7.0	5.0	60.9	-8	-7	3
Mining.....	124	51	33	10.4	15.3	190.5	-2	-10.1	5.6
Construction.....	1,098	70	276	47.7	16.6	270.5	6.8	1.2	3.4
Manufacturing.....	257	30	251	13.6	14.2	2,487.6	1.4	-4	116.7
Transportation, public utilities ⁴	434	22	109	21.9	6.2	575.6	2.1	-2	19.5
Wholesale and retail trade ⁵	2,463	217	817	198.3	70.4	1,997.1	8.4	1.3	33.3
Wholesale.....	338	30	279	35.1	29.6	1,119.7	2.3	4	22.6
Retail.....	2,009	185	534	157.8	40.1	873.7	5.6	1.1	10.6
Finance, insurance, real estate ⁶	907	682	470	22.2	73.6	877.8	6.0	-5.4	26.3
Services.....	3,953	263	753	103.0	61.0	259.9	27.5	11.6	8.1

¹ Receipts from sales and services less allowances, rebates, and returns; excludes capital gains or losses, and investment income not associated with the taxpayer's business. ² Net income (less deficit) is defined differently by legal form of organization, basically as follows: (a) Proprietorships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income are excluded; (b) Partnerships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, except capital gains, are included; (c) Corporations: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, such as capital gains and income from foreign corporations considered received for tax purposes only, are included; net profit is before income tax. ³ Includes business not allocable to individual industries. ⁴ Includes only business receipts portion of finance, insurance and real estate industries, therefore industry components exceed the total. ⁵ Includes sanitary services. ⁶ Includes total receipts for the finance, insurance, and real estate industry.

NO. 872. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY, BY TYPE OF BUSINESS, AND BY SIZE OF BUSINESS RECEIPTS: 1981

[Number in thousands; receipts and net income in millions of dollars. See footnote, table 871. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	NONFARM PROPRIETORSHIPS ¹			ACTIVE PARTNERSHIPS			ACTIVE CORPORATIONS		
	Under \$50,000 ²	\$50,000- \$99,999	\$100,000 or more	Under \$100,000 ²	\$100,000- \$499,999	\$500,000 or more	Under \$500,000	\$500,000- \$999,999	\$1,000,000 or more
All industrial divisions: ³									
Number.....	7,795	860	930	1,092	279	90	2,080	292	440
Business receipts ⁴	81.8	60.4	284.9	16,109	47,118	199,279	261,062	201,539	5,782,077
Net income ⁵	16.8	12.9	23.4	-23,072	3,003	17,334	-2,018	3,839	211,828
Agriculture, forestry, and fishing:									
Number.....	224	18	14	117	6	2	70	8	8
Business receipts ⁴	2.1	1.3	3.6	302	1,356	3,335	9,277	5,409	46,221
Mining:									
Number.....	101	8	15	41	7	3	23	4	7
Business receipts ⁴.....	.8	.5	9.1	384	1,462	13,483	2,304	2,576	184,673
Construction:									
Number.....	872	114	112	49	17	4	195	34	47
Business receipts ⁴	11.9	8.0	27.8	1,711	3,432	11,411	29,239	24,225	217,020
Manufacturing:									
Number.....	200	25	32	20	8	3	135	36	79
Business receipts ⁴	2.1	1.8	9.8	492	1,644	12,098	21,952	26,392	2,439,352
Transportation, public utilities: ⁶									
Number.....	313	83	38	15	5	2	80	13	16
Business receipts ⁴	5.1	5.7	11.1	461	1,073	4,706	9,307	8,818	557,378
Wholesale and retail trade:									
Number.....	1,763	243	448	127	67	23	492	119	205
Business receipts ⁴	17.9	17.2	163.2	4,021	15,200	51,221	85,807	85,409	1,826,048
Finance, insurance, real estate:									
Number.....	817	59	32	546	101	34	420	17	32
Business receipts ⁴	8.4	4.0	9.7	4,509	8,971	60,093	18,238	7,392	305,002
Services:									
Number.....	3,416	304	232	177	66	20	649	59	45
Business receipts ⁴	32.6	21.4	49.0	4,229	13,958	42,820	83,746	40,788	203,519

¹ Individually owned businesses. ² Includes businesses without receipts. ³ Includes businesses not allocable to individual industries. ⁴ See footnote 1, table 871. ⁵ Less loss. See footnote 2, table 871. ⁶ Includes sanitary services.

Source of tables 871 and 872: U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns*, annual; *Statistics of Income, Partnership Returns*, annual; and *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 873. ESTABLISHMENTS, EMPLOYEES, AND PAYROLL BY INDUSTRY AND EMPLOYMENT-SIZE CLASS: 1982

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data]

ITEM	Unit	All industries ¹	Agricultural services ²	Mining	Contract construction	Manufacturing	Transportation ³	Wholesale trade	Retail trade	Finance and insurance ⁴	Services
Establishments, total	1,000	4,634	50	35	386	329	177	404	1,285	426	1,441
Under 20 employees.....	1,000	4,013	47	26	351	207	138	344	1,116	378	1,306
20 to 99 employees.....	1,000	518	2	7	31	85	30	55	155	41	110
100 to 249 employees.....	1,000	71	(2)	1	9	23	6	4	12	5	17
250 or more employees.....	1,000	32	(2)	1	1	14	3	1	2	2	8
Employees, total	1,000	74,297	320	1,188	3,941	19,572	4,627	5,235	15,280	5,447	18,582
Under 20 employees.....	1,000	19,898	187	155	1,580	1,428	759	2,067	6,267	1,636	5,731
20 to 99 employees.....	1,000	21,143	78	305	1,210	3,832	1,306	2,057	6,172	1,612	4,553
100 to 249 employees.....	1,000	10,675	27	220	441	3,537	924	610	1,670	689	2,557
250 or more employees.....	1,000	22,581	28	508	710	10,775	1,638	501	1,171	1,510	5,741
Payroll	Bill. dol.	1,199	3.9	29.2	78.8	385.5	103.8	104.1	141.1	96.1	255.2
Under 20 employees.....	Bill. dol.	272	2.3	3.5	25.8	22.7	12.3	37.9	54.5	26.2	85.1
20 to 99 employees.....	Bill. dol.	303	9	6.9	25	63.5	26.3	41	55.5	27.7	56.5
100 to 249 employees.....	Bill. dol.	169	(2)	5.4	10	61.3	21.2	12.9	16.2	12.3	29.8
250 or more employees.....	Bill. dol.	455	(2)	13.4	18	238.0	44.0	12.3	14.9	29.9	83.8

Z Less than 500 or \$500 million. ¹ Includes nonclassifiable establishments not shown separately. ² Includes forestry and fisheries. ³ Includes other public utilities. ⁴ Includes real estate.

NO. 874. ALL INDUSTRIES—ESTABLISHMENTS, EMPLOYEES, AND PAYROLL, BY EMPLOYMENT-SIZE CLASS: 1974 TO 1982

[See headnote, table 873]

EMPLOYMENT SIZE-CLASS	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982
Establishments, total	1,000	4,110	4,114	4,143	4,352	4,409	4,536	4,543	4,587	4,634
Under 20 employees.....	1,000	3,513	3,537	3,649	3,832	3,839	3,929	3,932	3,972	4,013
20 to 99 employees.....	1,000	412	398	411	493	475	505	508	510	518
100 to 249 employees.....	1,000	58	52	55	58	64	69	70	72	71
250 or more employees.....	1,000	29	27	28	29	31	33	33	33	32
Employees, total	1,000	63,488	60,564	62,648	64,976	70,289	74,681	74,836	74,850	74,297
Under 20 employees.....	1,000	16,396	16,393	16,821	17,605	18,723	19,406	19,423	19,515	19,898
20 to 99 employees.....	1,000	16,936	16,272	17,099	17,815	19,612	20,992	21,168	21,231	21,143
100 to 249 employees.....	1,000	8,615	8,052	8,508	8,877	9,769	10,508	10,812	10,940	10,675
250 or more employees.....	1,000	21,541	19,847	20,220	20,679	22,185	23,775	23,433	23,164	22,581
Annual payroll	Bill. dol.	577	596	661	738	841	952	1,039	1,150	1,199
Under 20 employees.....	Bill. dol.	132	138	151	171	190	210	231	254	272
20 to 99 employees.....	Bill. dol.	140	147	164	183	211	239	261	288	303
100 to 249 employees.....	Bill. dol.	76	78	88	99	114	131	146	164	169
250 or more employees.....	Bill. dol.	229	233	258	285	326	372	401	444	455

Source of tables 873 and 874: U.S. Bureau of the Census, *County Business Patterns*, annual.

NO. 875. INC. 100—THE TOP 100 SMALLER PUBLICLY-HELD CORPORATIONS, BASED ON FIVE-YEAR SALES GROWTH: 1980 TO 1984

[The INC. 100 includes independent, publicly held corporations in a manufacturing, mining, or service industry with sales less than \$25 million in respective base years 1975 to 1979. Includes only those 100 companies with the highest sales growth rate. Excludes utilities, banks, insurance companies, and other financial institutions]

ITEM	Unit	1980	1981	1982	1983	1984
Firms by industry:						
Manufacturing.....	Number.....	56	53	53	51	51
Services.....	Number.....	32	30	36	32	42
Mining (incl. oil and gas).....	Number.....	12	17	11	17	7
Sales, total	Bill. dol.	4.6	5.0	5.0	5.3	4.5
Percent change (5 yr.): ¹						
Top 100 companies.....	Percent.....	763	1,188	1,247	1,177	2,030
Top company.....	Percent.....	9,534	36,567	43,154	88,970	43,670
100th company.....	Percent.....	321	510	592	500	783
All manufacturing corporations ²	Percent.....	58	62	36	21	(NA)
Net income, total	Mill. dol.	292.7	347.8	404.8	463.5	173.2
Mean sales	Mill. dol.	29.8	29.6	28.7	27.1	20.2
Net income as percent of sales (mean)	Percent.....	7.2	8.7	8.9	9.6	5.7
Number acquiring other firms	Number.....	48	58	45	43	45
Number incorporated (past 10 yrs.)	Number.....	32	41	56	53	77
Employees, total	Number.....	78,146	88,732	62,597	68,273	50,578

NA Not available. ¹ Represents 5 year growth from respective base year; 1980 change from 1975; 1981 change from 1976, etc. ² Source: U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

Source: Except as noted, Bradford W. Ketchum, Jr., senior editor, INC. Magazine, Boston, MA, INC., selected monthly issues. (Copyright.)

NO. 876. NEW BUSINESS CONCERNS AND BUSINESS FAILURES: 1970 TO 1983

[See also *Historical Statistics, Colonial Times to 1970*, series V 21-24]

FORMATIONS AND FAILURES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Business formations: Index, net formations ¹ (1967 = 100).....	106.4	108.5	115.9	114.9	109.2	107.0	115.6	123.2	128.2	128.3	122.4	118.6	113.2	114.9
New incorporations (1,000).....	264	288	317	329	319	326	376	438	478	525	534	582	567	600
Failures, number ² (1,000).....	10.7	10.3	9.6	9.3	9.9	11.4	9.6	7.9	6.6	7.6	11.7	16.8	24.9	³ 31.3
Rate per 10,000 concerns.....	44	42	38	36	38	43	35	28	24	28	42	61	88	³ 110

¹ Source: U.S. Bureau of Economic Analysis press release.² See footnote 2, table 877.³ Preliminary.Source: Except as noted, Dun & Bradstreet Corporation, New York, NY, *Monthly New Business Incorporation Report*.

NO. 877. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1946 TO 1983

[Excludes Hawaii prior to 1975, Alaska prior to 1976. Excludes all railroad failures. Excludes real estate and financial companies.
See also *Historical Statistics, Colonial Times to 1970*, series V 20-30]

YEARLY AVERAGE OR YEAR	Total concerns in business ¹ (1,000)	FAILURES ²				YEAR	Total concerns in business ¹ (1,000)	FAILURES ²			
		Number	Rate per 10,000 concerns	Current liabilities ³ (mil. dol.)	Average liability (\$1,000)			Number	Rate per 10,000 concerns	Current liabilities ³ (mil. dol.)	Average liability (\$1,000)
1946-1950.....	2,493	5,652	21	213	45	1971.....	2,466	10,326	42	1,917	196
1951-1955.....	2,635	9,317	35	370	39	1972.....	2,490	9,565	36	2,000	209
1956-1960.....	2,674	14,177	53	708	50	1973.....	2,567	9,345	36	2,299	246
1961-1965.....	2,565	14,849	57	1,261	86	1974.....	2,591	11,915	38	3,053	308
1966-1970.....	2,481	10,993	44	1,324	121	1975.....	2,679	11,432	43	4,380	383
1971-1975.....	2,559	10,117	40	2,730	270	1976.....	2,782	9,828	35	3,011	313
1976-1980.....	2,770	8,694	31	3,213	371	1977.....	2,793	7,919	28	3,095	391
1981.....	2,527	13,514	53	1,322	98	1978.....	2,786	6,619	24	2,666	401
1982.....	2,520	13,061	52	1,386	106	1979.....	2,708	7,564	28	2,667	353
1983.....	2,519	12,364	49	1,265	102	1980.....	2,780	11,742	42	4,635	395
1984.....	2,481	9,636	39	941	98	1981.....	2,745	16,794	61	6,955	414
1985.....	2,444	9,154	37	1,142	125	1982.....	2,806	24,808	88	15,611	627
1986.....	2,442	10,748	44	1,888	176	1983, prel.....	2,851	31,334	110	(NA)	(NA)

NA Not available.

¹ Data represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. ² Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. ³ Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.NO. 878. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY STATES:
1981 AND 1982

DIVISION AND STATE	NUMBER		CURRENT LIABILITIES ¹ (mil. dol.)		DIVISION AND STATE	NUMBER		CURRENT LIABILITIES ¹ (mil. dol.)		DIVISION AND STATE	NUMBER		CURRENT LIABILITIES ¹ (mil. dol.)	
	1981	1982	1981	1982		1981	1982	1981	1982		1981	1982	1981	1982
U.S.....	16,794	24,908	5,955.2	15,610.8	W.N.C.—					W.S.C.....	1,599	2,416	810.6	2,557.7
ME.....	563	650	255.4	481.5	MO.....	176	551	36.8	141.0	AR.....	138	170	57.0	65.9
NH.....	77	94	16.5	22.7	ND.....	51	77	16.1	39.7	LA.....	205	328	71.3	494.2
VT.....	11	56	3.7	34.3	SD.....	67	85	24.1	22.8	OK.....	216	559	110.9	376.0
NJ.....	25	14	8.4	2.8	NE.....	133	146	47.0	36.3	TX.....	1,040	1,359	571.4	1,621.6
MA.....	226	331	158.3	379.4	KS.....	187	362	45.1	86.5	MT.....	757	1,868	233.7	1,678.5
RI.....	36	58	11.9	13.1	S.A.....	1,942	3,064	637.1	1,202.5	MT.....	64	61	9.8	51.3
CT.....	178	97	56.6	29.1	DE.....	48	31	9.1	5.1	ID.....	59	71	24.1	18.1
M.A.....	2,143	2,854	2,285.7	2,184.7	MD.....	177	193	50.7	91.1	WY.....	2	31	1.1	22.8
NY.....	823	1,273	1,374.2	1,482.8	DC.....	24	47	66.8	18.5	CO.....	224	653	45.9	1,316.2
NJ.....	521	612	372.6	346.6	VA.....	378	549	107.8	190.0	NM.....	80	217	12.9	27.9
PA.....	799	1,069	598.9	855.3	WV.....	138	241	67.5	39.1	AZ.....	91	505	24.2	118.5
E.N.C.....	2,825	4,279	749.3	1,851.1	NC.....	305	441	71.8	365.2	UT.....	155	147	65.2	58.2
OH.....	660	1,165	139.5	291.9	SC.....	41	68	15.5	22.3	NV.....	82	183	30.3	54.6
IN.....	219	405	57.1	134.0	GA.....	283	550	94.9	198.5					
IL.....	726	1,087	198.7	868.0	FL.....	550	914	153.1	272.7	Pac.....	4,632	6,210	1,229.5	4,501.9
MI.....	867	1,216	251.8	392.5	E.S.C.....	1,134	1,736	265.9	602.0	WA.....	820	1,146	151.3	266.2
WI.....	353	406	103.2	166.7	KY.....	223	367	54.8	210.7	OR.....	820	1,174	146.5	359.9
W.N.C.....	1,209	1,831	489.0	550.8	TN.....	603	814	129.0	228.8	CA.....	2,849	3,673	897.7	3,805.8
MN.....	343	430	249.8	174.4	AL.....	148	377	41.9	102.3	HI.....	89	146	23.5	58.3
IA.....	252	179	69.1	50.0	MS.....	160	178	40.2	62.2	AK.....	54	71	10.5	11.7

- Represents zero. ¹ See headnote, and footnotes 2 and 3, table 877.Source of tables 877 and 878: Dun & Bradstreet Corporation, New York, NY, *The Failure Record Through 1980*, and *Monthly Failure Report*.

NO. 879. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRY AND SIZE OF LIABILITY: 1975 TO 1982

[Excludes Alaska prior to 1978. See footnotes, table 877]

INDUSTRY AND SIZE OF LIABILITY	FAILURES						CURRENT LIABILITIES (mil. dol.)					
	1975	1978	1979	1980	1981	1982	1975	1978	1979	1980	1981	1982
Total	11,432	6,619	7,564	11,742	16,794	24,908	4,380	2,656	2,667	4,835	6,955	15,611
Mining and manufacturing.....	1,645	1,013	1,165	1,599	2,223	3,683	1,021	879	970	1,885	2,369	5,510
Under \$100,000.....	789	381	424	501	731	1,113	35	18	21	25	37	42
\$100,000 and over.....	856	632	741	1,098	1,492	2,570	986	861	949	1,860	2,332	5,453
Wholesale trade.....	1,089	740	908	1,284	1,709	2,783	407	346	421	591	1,130	2,798
Under \$100,000.....	611	313	342	468	590	845	28	15	17	24	31	42
\$100,000 and over.....	478	427	566	816	1,119	1,938	379	331	404	567	1,099	2,755
Retail trade.....	4,799	2,889	3,183	4,910	6,882	9,730	1,836	777	637	984	1,559	4,479
Under \$100,000.....	3,520	1,916	1,920	2,698	3,739	5,193	136	86	88	130	190	245
\$100,000 and over.....	1,279	973	1,263	2,212	3,143	4,537	1,700	692	549	864	1,369	4,235
Construction.....	2,282	1,204	1,378	2,355	3,614	4,872	641	328	291	752	852	1,374
Under \$100,000.....	1,433	650	718	1,147	1,840	2,334	58	28	33	56	88	108
\$100,000 and over.....	829	554	660	1,208	1,774	2,538	583	300	258	696	764	1,266
Commercial service.....	1,637	773	930	1,594	2,366	3,840	475	326	348	413	1,046	1,450
Under \$100,000.....	1,151	452	526	868	1,333	2,024	42	18	21	38	60	90
\$100,000 and over.....	486	321	404	726	1,033	1,816	433	308	327	375	986	1,360

Source: Dun & Bradstreet Corporation, New York, NY, *The Failure Record Through 1980*, and *Monthly Failure Report*.

NO. 880. BANKRUPTCY ESTATES FILED AND PENDING: 1905 TO 1983

[In thousands. For years ending June 30, except 1905 ending Sept. 30. Covers all U.S. bankruptcy courts. Bankruptcy estates "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the bankruptcy court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending
1905.....	17	28	1945.....	13	21	1985.....	192	169	1975.....	254	202
1910.....	18	28	1950.....	33	38	1987.....	208	185	1976.....	247	271
1915.....	28	44	1955.....	59	58	1988.....	198	184	1977.....	214	254
1920.....	14	30	1960.....	110	95	1989.....	185	179	1978.....	203	240
1925.....	46	60	1961.....	147	124	1970.....	194	191	1979.....	226	258
1930.....	63	61	1962.....	148	134	1971.....	201	201	1980.....	361	421
1935.....	69	65	1963.....	155	148	1972.....	183	197	1981.....	519	618
1940.....	53	55	1964.....	172	157	1973.....	173	189	1982.....	528	733
			1965.....	180	162	1974.....	190	201	1983.....	536	812

NO. 881. BANKRUPTCY ESTATES FILED, BY TYPE OF BANKRUPTCY AND CHAPTER OF THE BANKRUPTCY ACT/CODE: 1974 TO 1983

[For years ending June 30]

ITEM	1974	1975	1976	1977	1978	1979	1980 ¹	1981	1982	1983
Total	189,513	254,484	246,549	214,399	202,951	226,478	360,957	519,063	527,811	535,587
Business.....	20,746	30,190	35,201	32,189	30,528	29,500	46,071	66,333	77,725	95,572
Non-business.....	168,767	224,354	211,348	182,210	172,423	196,976	314,886	452,730	450,086	440,025
Voluntary.....	188,493	253,198	245,383	213,257	201,944	225,549	359,768	517,729	526,276	533,926
Involuntary.....	1,020	1,286	1,166	1,142	1,007	927	1,184	1,333	1,535	1,671
Act	Code									
Chapters I-VII.....										
Chapter 7 ²	157,971	209,330	209,067	181,194	168,771	183,259	275,850	381,995	367,144	361,537
Chapter IX.....	2	2	2	1	2	1	1	1	4	7
Chapter X.....	183	189	141	96	75	63	17	3	2	2
Chapter XI.....	2,171	3,505	3,235	3,046	3,268	3,042	5,441	8,781	16,216	25,211
Chapter XII.....	172	280	525	640	850	669	212	1	1	-
Chapter XIII.....	29,019	41,178	33,579	29,422	30,185	39,442	79,432	128,281	144,444	148,839
Section 77 ³	15	1	-	-	2	-	-	-	-	-
(X).....	(X)	(X)	(X)	(X)	(X)	(X)	5	1	-	1

- Represents zero. X Not applicable. ¹ For the first three months of 1980 the judiciary operated under the Bankruptcy Act and for the last nine months under both the Bankruptcy Act and the new bankruptcy code established by the Bankruptcy Reform Act of 1978. ² Includes five Section 304 cases filed under the Reform Act in 1980 and 1 in 1981 which are not included in the subcategories of voluntary/involuntary. ³ Chapter 7, liquidation of non-exempt assets of businesses or individuals. ⁴ Chapter 9, adjustment of debts of a municipality. ⁵ Chapter 11, individual or business reorganization. ⁶ Chapter 13, adjustment of debts of an individual with regular income. ⁷ Section 77, railroad reorganization, no longer applies. Subchapter IV of Chapter 11 now provides for railroad reorganization. ⁸ 11 U.S.C., Section 304, cases ancillary to foreign proceedings.

Source of tables 880 and 881: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

NO. 882. GROSS DOMESTIC PRODUCT (GDP) OF CORPORATE BUSINESS: 1970 TO 1983

[In billions of dollars. For explanation of GDP, see text, p. 427. Excludes gross product originating in the rest of the world. Minus sign (-) indicates negative value. See *Historical Statistics, Colonial Times to 1970*, series V 141-166, for single-year figures prior to revisions issued in 1981]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Gross domestic product (GDP)	597	938	1,054	1,193	1,355	1,505	1,638	1,840	1,882	2,037
Net domestic product	543	838	944	1,071	1,217	1,348	1,459	1,637	1,680	1,806
Indirect business tax ¹	66	102	110	118	128	137	156	186	189	206
Domestic income	477	736	834	953	1,089	1,211	1,303	1,451	1,471	1,600
Compensation of employees	401	617	694	783	895	1,015	1,112	1,228	1,281	1,357
Corporate profits with IVA and CCAdj ²	65	98	124	152	173	164	146	168	137	200
Profits before tax	69	119	152	180	209	222	205	197	143	178
Profits tax liability	34	51	64	73	83	88	85	81	61	76
Profits after tax	35	68	88	107	126	134	120	116	82	103
Dividends	19	25	29	30	36	38	40	52	57	69
Undistributed profits	16	44	59	76	80	97	80	64	26	40
IVA ²	-7	-12	-15	-16	-24	-43	-43	-24	-9	-11
CCAdj ²	3	-10	-14	-11	-13	-15	-16	-8	3	33
Net interest	11	21	16	18	22	32	46	57	53	42
Capital consumption allowances ³	54	99	110	121	136	156	179	203	222	231
GDP of nonfinancial corporate business	564	890	1,001	1,128	1,276	1,417	1,541	1,739	1,778	1,918
Net domestic product	511	795	897	1,013	1,145	1,267	1,371	1,547	1,569	1,700
Indirect business tax ¹	63	97	105	113	122	131	148	178	180	197
Domestic income	448	698	791	900	1,023	1,137	1,223	1,369	1,388	1,503
Compensation of employees	378	581	654	739	844	958	1,046	1,155	1,198	1,263
Corporate profits with IVA and CCAdj ²	53	86	107	129	142	135	120	147	118	171
Profits before tax	57	107	135	156	178	192	178	177	123	149
Profits after tax	30	66	82	97	112	123	111	113	79	91
IVA ²	-7	-12	-15	-16	-24	-43	-43	-24	-9	-11
CCAdj ²	2	-10	-13	-11	-12	-14	-15	-6	4	33
Net interest	17	31	30	32	37	44	56	67	72	69
Capital consumption allowances ³	52	95	105	116	131	150	170	192	210	218
CONSTANT (1972) DOLLARS										
GDP of nonfinancial corporate business	600	694	746	796	846	876	859	883	857	896
Net domestic product	543	622	671	719	765	790	770	790	761	796
Indirect business tax ¹	67	79	83	87	91	93	93	96	95	98
Domestic income	475	543	588	631	674	698	677	694	666	699

¹ Plus business transfer payments less subsidies.

² Inventory valuation and capital consumption adjustments.

³ With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-78*, and *Survey of Current Business*, July issues.

NO. 883. RATES OF RETURN ON CURRENT-DOLLAR NET REPRODUCIBLE TANGIBLE NONFINANCIAL CORPORATE CAPITAL STOCK USING VARIOUS PROFIT MEASURES: 1960 TO 1983

[In percent. The profits concept emphasized in the national income and product account (NIPA) is profits from current production. The NIPA measure excludes capital gains and losses from income and resembles Pigou's concept in that NIPA profits are the excess of income over expenses beyond that necessary to maintain tangible capital intact. See A.C. Pigou, "Maintaining Capital Intact," *Economica* (August 1941): 271-75. See source, pp. 30-42 for details]

YEAR	NIPA profits	NIPA profits plus net interest	After-tax NIPA profits	After-tax NIPA profits plus net interest	Reported profits ¹	Reported profits plus net interest	After-tax reported profits	After-tax reported profits plus net interest
1960	10.2	11.1	4.9	5.9	10.8	11.8	5.5	6.5
1965	14.8	16.1	5.8	10.2	14.2	15.8	8.1	9.6
1970	7.1	9.5	3.5	5.8	7.7	10.0	3.8	6.3
1971	7.8	10.1	4.1	6.3	8.2	10.5	4.2	6.7
1972	8.5	10.7	4.8	6.8	8.9	11.1	4.9	7.2
1973	8.2	10.6	4.0	6.4	10.0	12.4	5.5	8.2
1974	5.5	8.1	1.9	4.4	9.1	11.7	5.2	8.1
1975	6.5	8.8	3.4	5.7	8.1	10.4	4.6	7.3
1976	7.5	9.6	3.8	5.9	9.4	11.5	5.4	7.8
1977	8.2	10.2	4.4	6.4	9.9	11.9	6.1	8.1
1978	8.0	10.0	4.2	6.3	10.0	12.1	6.3	8.3
1979	6.6	8.8	3.2	5.4	9.4	11.6	6.0	8.2
1980	5.2	7.6	2.3	4.7	7.7	10.1	4.8	7.2
1981	5.7	8.4	3.3	5.9	6.9	9.5	4.4	7.0
1982	4.3	7.0	2.7	5.4	4.5	7.2	2.9	5.6
1983	6.1	8.6	4.0	6.5	5.3	7.8	3.2	5.7

¹ Represents profits before tax which is equal to NIPA profits less the inventory valuation and capital consumption adjustments, closest to profits as measured on corporation's own books.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1982 and unpublished data.

No. 884. NONFINANCIAL CORPORATE BUSINESS-SECTOR BALANCE SHEET: 1960 to 1983

[In billions of dollars. Represents year-end outstandings]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.
Total assets	631	825	1,241	2,090	2,274	2,532	2,874	3,335	3,778	4,162	4,300	4,517
Tangible assets ¹	449	567	872	1,533	1,663	1,860	2,110	2,443	2,780	3,100	3,220	3,313
Reproducible.....	369	469	758	1,361	1,476	1,646	1,859	2,138	2,403	2,641	2,718	2,775
Land.....	81	97	113	172	187	214	251	305	377	458	502	538
Financial assets.....	182	259	370	558	612	672	784	892	999	1,063	1,081	1,204
Liquid assets.....	51	63	69	125	140	143	153	172	189	205	225	263
Demand deposits and currency.....	28	33	44	54	56	59	63	69	79	79	79	83
Time deposits.....	3	9	5	22	24	29	31	36	40	55	60	72
Consumer credit.....	11	15	17	23	25	26	28	29	30	32	32	36
Trade credit.....	81	119	169	249	265	304	360	432	481	504	489	548
Miscellaneous assets.....	38	62	94	160	179	198	223	258	299	322	334	359
Total liabilities	239	349	542	771	835	930	1,072	1,236	1,365	1,506	1,567	1,665
Credit market instruments.....	154	222	355	548	581	663	741	836	912	1,011	1,086	1,143
Profit taxes payable.....	14	20	11	14	22	20	25	27	25	19	2	5
Trade debt.....	64	98	162	180	191	213	264	318	359	387	377	426
Foreign direct investment in U.S.....	7	9	13	28	31	35	42	54	68	90	102	111
Net worth	392	477	699	1,319	1,440	1,601	1,802	2,098	2,414	2,656	2,733	2,832

² Less than \$500 million. ¹ Values at current cost.Source: Board of Governors of the Federal Reserve System, *Balance Sheets for U.S. Economy*.

No. 885. WORKING CAPITAL OF NONFINANCIAL CORPORATIONS: 1973 to 1983

[In billions of dollars, except ratios. As of December 31. Covers all nonfinancial U.S. corporations]

ITEM	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Current assets	697.8	734.6	756.3	823.1	900.9	1,028.1	1,200.9	1,281.6	1,374.5	1,425.4	1,561.2
Cash on hand and in banks ¹	66.3	73.0	80.0	86.8	94.3	103.7	118.1	121.0	126.6	144.1	164.9
U.S. Government securities.....	12.8	11.3	19.6	26.0	18.7	17.8	15.6	17.3	19.2	22.4	30.2
Receivables, total ²	288.5	265.5	272.1	292.4	325.0	381.9	456.8	491.2	528.0	511.0	578.9
Inventories.....	263.9	318.9	314.7	341.4	375.6	428.3	501.7	525.4	560.2	576.2	591.9
Other current assets.....	66.4	65.9	69.9	76.4	87.3	96.3	110.7	126.7	140.5	172.7	195.3
Current liabilities	450.9	451.8	446.9	487.5	546.8	661.9	809.1	877.2	923.2	977.8	1,056.7
Payables.....	340.3	272.3	261.2	273.2	313.7	375.1	456.3	498.3	520.4	552.8	598.8
Other current liabilities.....	110.7	179.5	185.7	214.2	233.1	286.8	352.8	378.9	402.9	425.0	457.9
Net working capital	246.9	282.8	309.5	335.6	354.1	366.2	391.8	404.4	451.3	447.6	504.6
Liquidity ratio ³.....	.323	.332	.379	.368	.366	.329	.300	.302	.310	.347	.369
Current ratio ⁴	1.548	1.626	1.693	1.688	1.648	1.553	1.484	1.461	1.489	1.458	1.477

¹ Includes time certificates of deposits. ² Includes U.S. Government receivables. ³ Cash plus U.S. Government securities plus "other current assets," divided by "current liabilities." ⁴ "Current assets" divided by "current liabilities."Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census. Published quarterly in Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*.

No. 886. LARGEST MANUFACTURING CORPORATIONS—PERCENT SHARE OF ASSETS HELD: 1960 to 1983

[Prior to 1970, excludes newspapers. Data prior to 1974 not strictly comparable with later years]

CORPORATION RANK GROUP	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
100 largest.....	46.4	46.5	48.5	44.7	44.4	45.0	45.4	45.9	45.5	46.1	46.7	46.8	47.7	48.3
200 largest.....	56.3	56.7	60.4	56.9	56.7	57.5	58.0	58.5	58.3	59.0	59.7	60.0	60.8	60.8

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, unpublished data.

No. 887. LARGEST MANUFACTURING COMPANIES—PERCENT SHARE OF TOTAL VALUE ADDED BY MANUFACTURE: 1947 to 1977

["Largest companies" are those which were largest in each of the specified years in terms of value added. For details, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series P 177-180]

COMPANY RANK	1947 Census	1954 Census	1958 Census	1962 ASM	1963 Census	1966 ASM	1967 Census	1970 ASM	1972 Census	1976 ASM	1977 Census
Largest 50 companies.....	17	23	23	24	25	25	25	24	25	24	24
Largest 100 companies.....	23	30	30	32	33	33	33	33	33	33	33
Largest 150 companies.....	27	34	35	36	37	38	38	38	39	40	39
Largest 200 companies.....	30	37	38	40	41	42	42	43	43	44	44

Source: U.S. Bureau of the Census, *Census of Manufactures and Annual Survey of Manufactures (ASM)*.

NO. 888. ACTIVE CORPORATION INCOME TAX RETURNS—SELECTED ITEMS: 1970 TO 1981

[In billions of dollars, except number of returns. Federal returns and active corporations only. See headnote, table 517. See also *Historical Statistics, Colonial Times to 1970*, series V 129-136]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981
Number of returns (1,000)	1,865	1,966	2,024	2,082	2,242	2,377	2,557	2,711	2,812
Returns with—									
Assets, end of year (1,000)	1,619	1,903	1,952	2,017	2,185	2,306	2,487	2,632	2,698
Net income (1,000)	1,008	1,207	1,226	1,274	1,425	1,524	1,586	1,597	1,597
Income tax less credits ¹ (1,000)	735	803	733	749	776	854	962	989	999
Total receipts ²	1,751	3,090	3,199	3,635	4,128	4,715	5,599	6,361	7,026
Business receipts	1,621	2,855	2,962	3,370	3,814	4,354	5,136	5,732	6,245
Interest ³	72	143	143	156	177	221	289	387	493
Total deductions ²	1,683	2,942	3,053	3,449	3,909	4,467	5,316	6,125	6,814
Cost of sales and operations	1,146	2,068	2,130	2,417	2,725	3,113	3,710	4,205	4,509
Interest paid	62	133	129	135	153	192	261	345	477
Receipts less deductions	68	148	146	187	220	247	283	236	213
Net income less deficit	66	146	143	185	219	247	285	239	214
Income tax ⁴	33	66	66	83	96	108	120	105	102
Income tax less credits ¹	28	41	40	50	57	64	66	63	58
Distributions to stockholders ⁵	32	49	45	55	62	70	87	97	120

¹ Credits include foreign tax, investment, work incentive (WIN) (beginning 1974), U.S. possessions tax (beginning 1976), jobs (beginning 1977), nonconventional source fuel, and alcohol fuel credits (beginning 1980) and research credit (beginning 1981).

² Includes items not shown separately.

³ Includes interest on Government obligations and other interest.

⁴ Income tax is before deductions for credit; see footnote 1.

⁵ Includes tax from recomputing prior-year investment credit; 1970, includes tax surcharge. Includes additional tax for tax preferences; beginning 1974, includes tax from recomputing prior-year work incentive (WIN) credit and beginning 1981, includes personal holding company tax. ⁶ Other than own stock.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 889. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE: 1970 TO 1981

[Figures are estimates based on samples of active corporations filing income tax returns; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series V 42, for total active corporations]

ASSET SIZE-CLASS	NUMBER OF RETURNS (1,000)						TOTAL ASSETS (bil. dol.)					
	1970	1975	1978	1979	1980	1981	1970	1975	1978	1979	1980	1981
Total	1,665.5	2,023.6	2,376.8	2,556.8	2,710.5	2,812.4	2,635	4,287	6,014	6,835	7,617	8,547
Under \$100,000 ¹	961.0	1,862.3	1,320.9	1,403.3	1,514.6	1,570.0	32	255	43	46	49	50
\$100,000-\$1 mil.	599.1		862.2	940.3	968.9	1,004.0	178		274	301	311	322
\$1 mil.-\$10 mil.	87.0	116.4	162.3	180.5	191.8	201.1	240	310	425	468	501	526
\$10 mil.-\$25 mil.	9.8	12.2	15.2	15.3	16.6	17.5	153	193	241	241	262	275
\$25 mil.-\$50 mil.	3.9	5.6	6.9	7.3	7.8	8.4	135	195	242	258	277	296
\$50 mil.-\$100 mil.	2.1	3.1	4.1	4.4	4.8	5.2	145	213	288	311	344	372
\$100 mil.-\$250 mil.	1.4	2.1	2.7	3.0	3.2	3.4	222	339	423	462	514	540
\$250 mil. and over	1.2	1.9	2.5	2.7	2.9	3.1	1,530	2,790	4,076	4,748	5,358	6,165

¹ Includes returns with zero assets.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 890. ACTIVE CORPORATIONS—ASSETS AND LIABILITIES: 1970 TO 1981

[In billions of dollars. See headnote, table 517. For number of income tax returns, see table 888. See also *Historical Statistics, Colonial Times to 1970*, series V 108-127]

ASSETS AND LIABILITIES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Assets ¹	2,635	2,889	3,257	3,649	4,016	4,287	4,721	5,326	6,014	6,835	7,617	8,547
Cash	177	196	228	259	281	290	315	362	413	462	529	533
Notes and accounts receivable ²	595	650	762	891	998	1,021	1,137	1,304	1,551	1,771	1,935	2,195
Inventories	190	199	224	263	312	318	351	396	443	503	535	589
Mortgage and real estate loans	328	366	418	463	508	548	599	661	722	841	894	934
Capital assets ³	600	634	685	750	831	892	959	1,076	1,196	1,348	1,512	1,694
Liabilities ¹	2,635	2,889	3,257	3,649	4,016	4,287	4,721	5,326	6,014	6,835	7,617	8,547
Notes and accounts payable ⁴	320	334	386	461	539	536	579	666	784	933	1,047	1,206
Other current liabilities	892	1,005	1,163	1,316	1,459	1,577	1,791	2,063	2,336	2,583	2,707	2,860
Bonded debt and mortgages ⁵	363	403	445	493	542	587	638	694	781	885	987	1,059
Surplus and undivided profits ⁶ (net)	551	599	666	730	776	843	938	1,064	1,185	1,364	1,527	1,711

¹ Includes assets, or liabilities, not shown separately. ² Less allowance for bad debts. Includes loans and discounts of banks, except mortgage and real estate loans. ³ Less depreciation, amortization, and depletion reserves. Includes land and intangible assets. ⁴ Includes bonds, notes, and mortgages payable with maturity of less than 1 year.

⁵ With maturity of 1 year or more.

⁶ Surplus and undivided profits are reduced by cost of treasury stock.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

**NO. 891. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE-CLASS, 1980 AND 1981,
and BY INDUSTRY, 1981**

[In billions of dollars, except as indicated. Detail may not add to total because of rounding and the exclusion of data to prevent disclosure of individual taxpayer's identity. See headnote and footnotes, table 517. See also *Historical Statistics, Colonial Times to 1970*, series V 167-183 and V 193-196]

INDUSTRY AND ITEM	Total	ASSET SIZE-CLASS					
		Under 10 mil. dol.	10-24.9 mil. dol.	25-49.9 mil. dol.	50-99.9 mil. dol.	100-249.9 mil. dol.	250 mil. dol. and over
1980							
Number of returns (1,000).....	2,711	2,675	17	8	5	3	3
Returns with—							
Assets, end of year (1,000).....	2,632	2,597	17	8	5	3	3
Net income (1,000).....	1,597	1,571	13	6	3	2	2
Income tax less credits ¹ (1,000).....	989	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Total receipts ²	6,381.3	1,950.5	307.4	214.5	246.4	371.0	3,229.5
Business receipts.....	5,731.6	1,911.5	287.6	192.7	218.9	329.8	2,789.0
Interest ³	366.9	30.5	11.1	15.4	19.6	29.0	261.4
Total deductions ²	6,125.4	1,953.0	298.8	205.0	236.0	355.5	3,076.8
Cost of sales and operations.....	4,204.9	1,364.4	223.4	146.3	167.3	248.7	2,053.5
Interest paid.....	344.6	49.7	11.1	12.9	16.9	24.7	229.2
Receipts less deductions.....	235.9	37.5	10.6	9.1	10.4	15.7	152.7
Net income less deficit.....	239.0	37.2	10.3	8.4	9.8	14.8	158.4
Income tax ⁴	105.1	17.3	4.8	3.8	4.1	6.4	68.8
Income tax less credits ¹	63.0	14.4	4.1	3.1	3.2	4.7	33.4
Distributions to stockholders ⁵	97.4	8.9	2.3	2.4	3.3	5.7	74.8
1981							
Number of returns (1,000).....	2,812	2,775	17	8	5	3	3
Returns with—							
Assets, end of year (1,000).....	2,698	2,661	17	8	5	3	3
Net income (1,000).....	1,597	1,573	12	5	3	2	2
Income tax less credits ¹ (1,000).....	989	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Total receipts ²	7,026.4	2,152.6	326.6	235.4	254.2	381.5	3,675.1
Business receipts.....	6,244.7	2,051.6	303.7	208.8	220.7	332.5	3,126.5
Interest ³	493.4	46.8	13.2	18.9	25.1	35.5	353.9
Total deductions ²	6,813.8	2,121.7	316.7	227.2	245.5	370.1	3,531.7
Cost of sales and operations.....	4,509.2	1,454.9	231.8	157.0	165.3	239.1	2,260.4
Interest paid.....	477.0	68.8	13.8	16.8	22.4	32.1	323.2
Receipts less deductions.....	212.5	31.0	9.9	8.2	8.7	11.4	143.4
Net income less deficit.....	213.6	30.8	9.5	7.5	7.9	10.7	147.3
Income tax ⁴	102.3	17.8	5.1	3.8	4.2	5.9	65.4
Income tax less credits ¹	58.4	14.1	4.3	3.0	3.2	4.3	29.5
Distributions to stockholders ⁵	120.3	12.0	2.7	3.3	3.8	6.8	91.7
Percent distribution:							
Number of returns.....	100.0	98.7	.6	.3	.2	.1	.1
Total assets or liabilities.....	100.0	10.5	3.2	3.5	4.4	6.3	72.1
Total receipts.....	100.0	30.6	4.7	3.4	3.6	5.4	52.3
Total deductions.....	100.0	31.1	4.7	3.3	3.6	5.4	51.8
Net income less deficit ⁴	100.0	14.4	4.5	3.5	3.7	5.0	68.9
Income tax ⁵	100.0	17.5	5.0	3.7	4.1	5.7	64.0
Agriculture, forestry, and fishing:							
Number of returns.....	85,370	85,082	203	54	21	5	6
Total assets or liabilities.....	45.1	36.4	2.9	1.8	1.4	.8	2.8
Total receipts.....	65.1	49.3	4.1	2.6	2.3	1.1	5.7
Mining:							
Number of returns.....	33,363	18,846	579	233	123	70	80
Total assets or liabilities.....	168.9	20.3	9.2	8.2	8.9	11.4	110.5
Total receipts.....	200.2	24.1	6.7	6.2	5.2	8.5	146.8
Construction:							
Number of returns.....	276,395	275,048	932	242	99	49	25
Total assets or liabilities.....	150.8	88.0	13.7	8.3	7.7	6.9	26.1
Total receipts.....	280.2	204.8	20.6	10.9	8.7	8.2	26.9
Manufacturing:							
Number of returns.....	251,294	244,366	3,662	1,277	753	541	672
Total assets or liabilities.....	1,933.7	155.9	56.7	44.2	55.5	90.9	1,530.5
Total receipts.....	2,613.5	384.2	102.7	73.1	82.1	133.4	1,837.2
Transportation and public utilities:							
Number of returns.....	109,127	107,790	599	234	122	103	278
Total assets or liabilities.....	837.3	34.9	9.2	8.5	8.8	16.6	769.3
Total receipts.....	598.5	71.0	11.8	10.5	11.3	17.1	476.7
Wholesale and retail trade:							
Number of returns.....	815,836	811,916	3,072	888	464	280	215
Total assets or liabilities.....	708.1	297.4	46.4	30.9	34.5	51.5	247.5
Total receipts.....	2,039.6	1,057.4	137.4	88.0	93.1	128.2	535.5
Finance, insurance, real estate:							
Number of returns.....	469,795	196,953	7,468	5,140	3,492	2,260	1,811
Total assets or liabilities.....	4,486.2	149.5	122.5	183.1	243.9	345.4	3,434.1
Total receipts.....	877.8	56.8	24.5	31.2	37.5	69.5	612.4
Services:							
Number of returns.....	752,813	751,232	956	318	153	101	54
Total assets or liabilities.....	213.7	105.8	14.5	11.2	11.2	16.6	54.4
Total receipts.....	346.8	251.9	18.6	12.9	14.0	15.5	33.9

NA Not available. ¹ Credits include foreign tax, investment, work incentive, U.S. possessions tax, job, nonconventional source fuel, alcohol fuel, and, beginning 1981, research credits. ² Includes items not shown separately. ³ Includes interest on Government obligations and other interest. ⁴ Income tax is before deductions for foreign tax, U.S. possessions tax, investment, work incentive (WIN) jobs, nonconventional source fuel, alcohol fuel credits and, beginning 1981, research credits. ⁵ Other than own stock.

No. 892. FIXED NONRESIDENTIAL PRIVATE CAPITAL VALUED IN CURRENT AND CONSTANT (1972)

DOLLARS: 1970 TO 1983

(In billions of dollars. Stocks as of Dec. 31; depreciation over entire calendar year. Data refer to privately owned assets and are based on the fixed capital formation components of the gross national product. Excludes residential capital and government enterprises; includes nonprofit institutions. Gross stocks allow for retirement; net stocks allow for retirement and depreciation. Estimates are based on straight-line depreciation and 85 percent of service lives given in *Bulletin F*, Internal Revenue Service. For single-year figures prior to revisions issued in 1981 and data in constant (1958) dollars, see *Historical Statistics of the United States, Colonial Times to 1970*, series F 480-527.)

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
CURRENT DOLLARS											
All industries:¹											
Gross stocks	1,363.6	2,262.1	2,470.6	2,670.8	3,003.9	3,414.8	3,920.1	4,467.4	4,964.5	5,296.2	5,521.1
Equipment	645.1	1,010.8	1,157.3	1,277.7	1,433.6	1,628.1	1,858.5	2,130.0	2,398.7	2,569.1	2,702.7
Structures	718.6	1,251.3	1,313.3	1,393.0	1,570.3	1,786.6	2,061.7	2,337.5	2,565.8	2,727.0	2,818.4
Net stocks	807.3	1,334.7	1,440.8	1,542.8	1,726.8	1,960.3	2,248.2	2,550.4	2,822.4	2,966.8	3,085.3
Equipment	368.9	576.0	651.4	712.5	797.6	907.3	1,038.8	1,182.9	1,322.9	1,395.5	1,451.4
Structures	438.4	758.7	789.4	830.3	929.3	1,053.0	1,209.4	1,367.6	1,499.5	1,591.3	1,633.9
Depreciation	69.8	106.9	126.8	139.0	154.4	175.2	201.6	231.5	263.7	288.9	302.6
Equipment	47.5	70.2	84.8	94.7	106.0	119.7	137.0	156.9	179.2	196.8	207.8
Structures	22.2	36.7	42.0	44.4	48.3	55.5	64.6	74.6	84.5	92.1	94.8
Manufacturing:											
Gross stocks	343.6	529.2	577.3	623.0	703.1	797.5	922.4	1,053.1	1,161.6	1,232.5	1,269.6
Equipment	198.1	299.4	348.3	386.0	438.7	496.5	577.6	668.5	757.1	806.6	836.1
Structures	145.5	229.7	229.1	237.0	264.4	301.0	344.8	384.6	404.5	425.9	433.4
Net stocks	191.2	292.7	319.3	343.9	387.3	438.2	508.8	579.7	636.4	665.0	672.4
Equipment	112.3	170.4	198.2	219.0	248.8	281.0	328.1	377.7	423.5	440.9	446.3
Structures	78.9	122.3	121.2	124.8	138.5	157.2	180.7	202.1	212.8	224.2	226.0
Depreciation	18.9	26.5	31.6	34.5	38.5	43.2	50.1	58.0	65.7	71.4	74.7
Equipment	14.0	19.0	23.3	26.1	29.5	33.2	38.5	44.6	51.4	56.5	59.2
Structures	4.9	7.5	8.3	8.4	8.9	10.1	11.7	13.3	14.3	14.9	15.5
Nonfarm nonmfg:											
Gross stocks	927.2	1,581.5	1,728.6	1,866.0	2,094.2	2,375.8	2,721.5	3,101.5	3,464.3	3,710.1	3,888.3
Equipment	394.9	629.9	716.4	787.1	877.4	992.5	1,126.4	1,286.0	1,448.2	1,561.4	1,659.8
Structures	532.3	951.7	1,012.2	1,078.9	1,216.8	1,383.3	1,595.1	1,815.5	2,016.1	2,148.7	2,228.5
Net stocks	563.1	954.8	1,026.4	1,093.9	1,219.9	1,382.0	1,579.3	1,791.7	1,995.5	2,127.5	2,217.9
Equipment	228.3	360.3	401.5	434.9	483.1	549.7	624.6	709.2	795.9	850.6	901.3
Structures	334.7	594.5	624.9	658.9	736.8	832.3	954.7	1,082.5	1,199.6	1,276.9	1,316.6
Depreciation	45.7	72.8	85.2	94.6	104.7	119.2	136.7	156.7	179.3	187.5	207.5
Equipment	29.4	45.4	54.5	60.6	67.5	76.3	86.9	98.9	112.9	124.4	132.3
Structures	16.2	27.4	31.7	34.0	37.2	42.9	49.8	57.7	66.5	73.2	75.2
CONSTANT (1972) DOLLARS											
All industries:¹											
Gross stocks	1,452.6	1,714.7	1,766.9	1,821.9	1,888.0	1,969.8	2,056.8	2,137.1	2,222.1	2,293.1	2,364.2
Equipment	685.1	819.2	850.7	885.4	929.4	985.8	1,045.1	1,096.6	1,149.0	1,188.8	1,233.4
Structures	767.5	895.5	916.1	936.5	958.6	984.0	1,011.7	1,040.6	1,073.1	1,104.3	1,130.8
Net stocks	860.1	1,012.4	1,033.7	1,056.9	1,089.5	1,136.3	1,184.6	1,226.1	1,270.5	1,300.4	1,329.4
Equipment	379.7	487.8	480.4	495.7	519.2	553.2	588.7	615.4	642.3	656.2	674.3
Structures	480.3	544.6	553.3	561.2	570.3	582.1	595.9	610.8	628.3	644.2	655.1
Depreciation	76.2	92.1	96.1	99.6	103.8	109.2	115.3	121.3	126.9	132.4	137.5
Equipment	50.8	63.4	66.6	69.4	73.0	77.5	82.8	87.8	92.4	96.7	100.8
Structures	25.4	28.7	29.5	30.1	30.8	31.6	32.5	33.5	34.6	35.7	36.7
Manufacturing:											
Gross stocks	363.6	407.7	420.1	433.6	450.8	469.8	494.7	516.6	537.8	551.3	561.2
Equipment	204.4	241.5	253.0	265.4	281.0	297.8	319.7	338.9	356.9	367.8	377.4
Structures	159.1	166.2	167.1	168.2	169.7	172.0	175.0	177.7	180.7	183.6	183.8
Net stocks	202.2	225.9	232.7	239.7	248.2	259.5	275.1	287.0	297.2	300.3	300.1
Equipment	115.8	137.4	144.3	151.1	160.3	169.7	183.3	193.6	202.1	207.7	204.3
Structures	86.3	88.5	88.4	88.6	88.9	89.8	91.7	93.4	95.1	96.6	95.8
Depreciation	20.4	23.0	24.0	25.0	26.2	27.6	29.4	31.3	33.0	34.5	35.6
Equipment	14.8	17.1	18.0	19.0	20.1	21.5	23.1	25.0	26.6	28.0	29.0
Structures	5.6	5.9	6.0	6.0	6.1	6.1	6.2	6.3	6.5	6.6	6.6
Nonfarm nonmfg:											
Gross stocks	988.7	1,193.9	1,228.5	1,265.1	1,309.0	1,365.9	1,422.7	1,478.0	1,539.9	1,597.4	1,659.0
Equipment	405.0	514.6	532.0	551.6	577.3	613.6	647.8	678.7	712.5	742.3	778.4
Structures	583.7	678.7	696.5	713.5	731.7	752.4	774.9	799.4	827.4	855.0	880.6
Net stocks	600.7	721.1	732.6	745.8	765.8	797.8	828.6	857.4	891.6	920.3	951.4
Equipment	293.8	295.3	299.4	306.2	319.1	341.8	361.9	378.4	397.3	411.6	430.9
Structures	366.9	425.7	433.2	439.6	446.7	456.0	466.6	479.0	494.3	508.7	520.5
Depreciation	50.1	62.7	65.4	67.7	70.4	74.0	78.1	81.9	85.7	89.7	93.9
Equipment	31.5	41.3	43.3	45.0	47.1	50.1	53.4	56.4	59.3	62.4	65.6
Structures	18.5	21.5	22.1	22.7	23.3	23.9	24.6	25.4	26.4	27.4	28.3

¹ Includes farm, not shown separately.Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-79*, Survey of Current Business, February 1981, October 1982, August 1983, and unpublished data.

NO. 893. FIXED NONRESIDENTIAL BUSINESS CAPITAL—AVERAGE AGE OF GROSS STOCKS, CONSTANT (1972) COST VALUATION: 1970 TO 1983

[Age in years. As of Dec. 31. See headnote, table 892, and *Historical Statistics, Colonial Times to 1970*, series F 516-527]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
All Industries: Gross stocks	10.3	10.0	10.1	10.1	10.1	10.1	10.0	10.0	10.0	10.0	10.1
Equipment.....	6.5	6.3	6.4	6.4	6.4	6.3	6.3	6.3	6.3	6.3	6.4
Structures.....	13.5	13.4	13.5	13.7	13.8	13.9	14.0	14.0	14.1	14.1	14.3
Manufacturing: Gross stocks	9.8	9.7	9.6	9.5	9.5	9.4	9.2	9.1	9.0	9.1	9.2
Equipment.....	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.4	6.6	6.7
Structures.....	14.0	14.2	14.2	14.3	14.3	14.3	14.2	14.2	14.1	14.1	14.2
Nonfarm nonmfg.: Gross stocks	10.4	10.1	10.2	10.3	10.4	10.3	10.3	10.3	10.3	10.3	10.4
Equipment.....	6.4	6.1	6.3	6.3	6.3	6.2	6.2	6.2	6.1	6.1	6.1
Structures.....	13.2	13.1	13.2	13.4	13.6	13.7	13.6	13.9	13.9	14.0	14.1
Farm: Gross stocks	10.5	10.4	10.4	10.3	10.3	10.2	10.2	10.4	10.6	11.0	11.4
Equipment.....	6.7	6.5	6.4	6.4	6.4	6.3	6.3	6.5	6.7	7.0	7.2
Structures.....	15.2	15.4	15.3	15.3	15.2	15.1	15.2	15.3	15.5	15.8	16.2

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-79*, and *Survey of Current Business*, August 1984.

NO. 894. GROSS PRIVATE DOMESTIC INVESTMENT: 1960 TO 1983

[In billions of dollars]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
CURRENT DOLLARS												
Gross private domestic investment	75.9	113.5	144.2	206.1	257.9	324.1	386.6	423.0	401.9	484.2	414.9	471.6
Fixed investment	72.9	103.7	141.0	213.0	246.0	301.0	360.1	408.8	411.7	458.1	441.0	485.1
Nonresidential.....	48.5	72.7	103.9	157.7	174.1	205.2	248.9	290.2	308.8	353.9	348.6	352.9
Structures.....	18.8	27.0	36.7	55.4	58.8	64.4	78.7	98.3	110.9	135.3	142.1	129.7
Producers' durable equipment.....	29.7	45.8	65.2	102.3	115.3	140.8	170.2	191.9	197.9	218.6	207.5	223.2
Residential.....	24.5	30.9	37.1	55.3	72.0	95.8	111.2	118.6	102.9	104.3	91.4	132.2
Less: Capital consumption allowances ¹	46.3	56.0	88.1	159.3	175.0	195.2	222.5	256.0	293.2	330.3	358.8	377.1
Equals: Net private domestic investment	29.6	57.5	56.2	46.8	82.8	128.9	164.1	167.0	108.7	153.9	56.0	94.5
CONSTANT (1972) DOLLARS												
Gross private domestic investment	104.7	151.9	158.5	154.8	184.5	214.2	236.7	236.3	208.5	230.9	194.3	221.0
Fixed investment	101.2	140.1	154.8	161.5	176.7	200.9	220.7	229.1	212.9	219.6	204.7	224.6
Nonresidential.....	66.9	97.4	113.8	119.3	126.6	140.3	158.3	169.9	165.8	175.0	166.9	171.0
Structures.....	37.4	40.6	49.9	38.3	39.5	40.4	44.6	49.1	48.8	53.2	53.3	49.2
Producers' durable equipment.....	34.2	56.8	69.9	81.1	86.1	99.9	113.7	120.8	117.0	121.8	113.5	121.8
Residential.....	34.2	42.7	41.0	42.2	51.2	60.7	62.4	59.1	47.1	44.5	37.9	53.7
Less: Capital consumption allowances ¹	63.3	74.8	96.1	120.8	125.1	129.9	135.8	143.0	149.8	156.3	161.9	168.1
Equals: Net private domestic investment	41.4	77.2	62.4	34.0	59.4	84.3	100.9	93.3	58.7	74.5	32.4	52.9

¹ With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues.

NO. 895. CAPITAL STOCK PER HOUR WORKED: 1970 TO 1982

[In 1972 dollars. Represents the "capital/labor ratio"]

1972 industry code	INDUSTRY	1970	1980	1981	1982	1972 industry code	INDUSTRY	1970	1980	1981	1982
29	Public utilities.....	115.45	161.04	162.25	165.60	20	Food.....	10.90	14.32	15.08	15.82
49	Petroleum.....	66.95	95.46	90.00	96.70	34	Fabricated metals.....	8.22	11.68	12.31	13.98
10-14	Mining.....	74.85	59.40	56.12	59.56	22	Textiles.....	8.62	11.32	12.08	13.78
48	Communications.....	36.65	52.67	54.32	56.69	30	Rubber and plastics.....	9.41	11.65	11.77	12.86
33	Primary metals.....	28.52	38.28	40.05	51.22	24	Lumber and wood.....	6.80	10.27	11.35	12.82
21	Tobacco.....	23.93	37.42	38.52	41.99						
28	Chemicals.....	23.74	32.63	34.28	36.90						
41-47	Transportation.....	27.49	29.57	30.06	33.32	36	Electric machinery.....	7.42	10.65	11.40	11.96
26	Paper.....	19.12	27.96	29.87	32.72	38	Instruments.....	7.74	9.06	9.61	10.38
32	Stone, clay, glass.....	15.05	20.00	21.68	24.51	27	Printing and publishing.....	6.59	8.45	9.01	9.47
70-89	Services.....	23.59	23.71	23.68	23.65	50-59	Wholesale, retail trade.....	6.94	8.67	8.94	9.15
37	Trans. equip.....	12.37	17.43	18.05	20.86	25	Furniture and fixtures.....	4.93	6.45	6.65	7.32
35	Nonelectric mach.....	11.02	14.32	15.38	17.92		Leather.....	2.72	4.27	4.44	5.05
60-64	Finance and insurance.....	8.13	15.11	16.10	17.28	15-17	Construction.....	4.00	3.93	4.06	4.28
						23	Apparel.....	2.64	3.68	3.90	4.26

Source: The Conference Board, New York, NY, *Economic Road Maps*, monthly. (Copyright.)

NO. 896. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1970 TO 1983

[In billions of dollars. Excludes expenditures of agricultural business and current account outlays. Based on sample and subject to sampling variability; see text, p. 514. Beginning 1982, data based on reduced industry coverage; see June 1984 *Survey of Current Business*. These figures do not agree with the fixed nonresidential investment data mainly because those data exclude investments for equipment, and include investment by farmers and certain outlays to current account. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series V 306-332]

INDUSTRY	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984 ¹
CURRENT DOLLARS										
Total.....	105.6	157.7	198.1	231.2	270.5	295.6	321.5	282.7	289.2	309.0
Manufacturing.....	37.0	54.9	69.2	79.7	98.7	115.8	126.8	119.7	111.5	128.8
Durable goods ²	19.8	26.3	34.0	40.4	51.1	58.9	61.8	56.4	51.8	61.4
Primary metals.....	3.2	5.8	5.4	5.7	6.8	7.7	8.1	7.5	6.4	7.1
Electrical machinery ³	3.5	3.1	4.7	5.7	7.3	9.6	10.3	10.6	10.9	13.5
Machinery ⁴	3.8	5.0	6.6	7.2	10.5	11.6	13.2	12.9	12.4	13.9
Transportation equip.....	4.6	5.9	9.1	12.0	15.3	18.2	18.4	15.2	13.0	16.5
Nondurable goods ²	17.2	28.6	35.2	39.3	47.6	56.9	64.9	63.2	59.8	67.4
Food and beverage.....	3.3	4.0	5.1	6.0	6.6	7.4	8.2	7.7	6.6	7.1
Paper.....	1.7	3.0	3.6	4.0	5.5	6.8	6.7	6.0	6.2	7.2
Chemicals.....	3.4	7.6	8.1	8.5	10.8	12.6	13.6	13.3	13.3	15.1
Petroleum.....	5.2	9.6	12.7	13.9	16.2	20.7	26.6	26.7	23.5	25.9
Nonmanufacturing.....	68.6	102.8	128.9	151.5	171.8	179.8	194.7	163.0	157.7	180.2
CONSTANT (1972) DOLLARS ⁵										
Total.....	115.3	119.7	134.8	146.4	157.7	159.1	159.4	150.3	144.6	162.0
Manufacturing.....	40.0	41.2	46.1	48.8	55.4	60.0	60.8	54.8	51.9	60.0
Durable goods.....	21.4	20.3	23.5	25.7	29.7	31.9	31.7	28.5	26.5	31.7
Nondurable goods.....	18.6	20.9	22.7	23.1	25.7	28.1	29.1	26.3	25.4	28.3
Nonmanufacturing.....	75.3	78.5	88.6	97.6	102.3	99.1	98.7	95.5	92.8	102.0

¹ Estimates based on expected capital expenditures as reported by business in late January and February 1984.

² Includes industries not shown separately. ³ Includes equipment. ⁴ Excludes electrical. ⁵ Constant-dollar expenditures since 1977 have been reestimated using deflators that reflect revisions of the national income and product accounts released in July 1982.

NO. 897. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1950 TO 1984

[In billions of dollars; except percent. See headnote, table 896]

YEAR	Total	MANUFACTURING			NONMANUFACTURING					
		Total	Durable goods	Non-durable goods	Total	Mining	Transportation	Public utilities	Trade and services	Communication and other
1950.....	25.32	7.73	3.22	4.51	17.59	.84	2.38	3.42	8.37	2.58
1955.....	36.58	12.50	5.87	6.62	24.08	1.31	2.60	4.26	11.49	4.42
1956.....	44.76	16.33	8.19	8.15	28.43	1.64	3.07	4.78	13.64	5.30
1957.....	48.12	17.50	8.59	8.91	30.62	1.69	3.35	5.05	13.68	5.96
1958.....	42.17	12.98	6.21	6.77	29.19	1.43	2.34	5.74	14.11	5.58
1959.....	44.78	13.76	6.72	7.04	31.02	1.35	3.17	5.46	15.40	5.83
1960.....	48.63	16.36	8.28	8.08	32.28	1.29	3.19	5.40	16.15	6.25
1961.....	47.82	15.53	7.43	8.10	32.29	1.26	2.82	5.20	16.53	6.48
1962.....	51.28	16.03	7.81	8.22	35.25	1.41	3.26	5.12	18.27	7.19
1963.....	53.25	17.27	8.64	8.63	35.98	1.26	3.36	5.33	18.57	7.47
1964.....	61.66	21.23	10.98	10.25	40.43	1.33	4.46	5.80	20.38	8.46
1965.....	70.43	25.41	13.49	11.92	45.02	1.36	5.46	6.49	22.13	9.58
1966.....	82.22	31.37	17.23	14.15	50.84	1.42	6.43	7.82	24.69	10.49
1967.....	83.42	32.25	17.83	14.42	51.18	1.38	6.34	9.33	23.02	11.11
1968.....	88.45	32.34	17.93	14.40	56.11	1.44	6.79	10.52	25.31	12.06
1969.....	99.52	36.27	19.97	16.31	63.25	1.77	7.04	11.70	28.31	14.43
1970.....	105.61	36.99	19.80	17.19	68.82	2.02	6.95	13.03	29.77	16.85
1971.....	108.53	33.60	16.78	16.82	74.93	2.87	5.93	14.70	34.20	17.43
1972.....	120.25	35.42	18.22	17.20	84.82	2.88	6.72	16.26	40.00	18.96
1973.....	137.70	42.37	22.75	19.62	95.33	3.31	7.41	17.97	45.53	21.12
1974.....	156.98	53.21	27.44	25.76	103.78	4.62	8.23	19.83	47.79	23.30
1975.....	157.71	54.92	26.33	28.59	102.79	6.10	8.68	19.98	46.23	21.80
1976.....	171.45	59.05	28.47	31.47	111.50	7.44	8.89	22.37	49.30	23.51
1977.....	198.08	69.22	34.04	35.18	128.87	9.24	8.40	26.79	56.54	26.90
1978.....	231.24	79.72	40.43	39.29	151.52	10.21	10.88	29.85	68.66	32.02
1979.....	270.46	98.68	51.07	47.61	171.77	11.36	12.35	33.96	79.26	34.83
1980.....	295.63	115.81	58.91	56.90	179.81	13.51	12.09	35.44	81.79	36.89
1981.....	321.48	128.79	61.84	64.95	194.70	16.86	12.05	38.40	86.33	41.06
1982.....	282.71	119.68	56.44	63.23	183.03	15.45	11.95	41.95	85.34	28.34
1983.....	269.22	111.53	51.78	59.75	157.69	11.83	11.20	42.00	68.68	25.89
1984.....	308.98	128.76	61.40	67.36	180.22	13.97	11.97	44.98	(NA)	(NA)
Average annual percent change:										
1950-1955.....	7.6	10.1	12.8	8.0	6.5	9.3	1.8	4.5	6.5	11.4
1955-1960.....	5.9	5.5	7.1	4.1	6.0	-3	4.2	4.9	7.1	7.2
1960-1965.....	7.7	9.2	10.3	8.1	6.9	1.1	11.4	3.8	6.5	8.9
1965-1970.....	8.4	7.8	8.0	7.8	8.8	8.2	4.9	15.0	6.1	12.0
1970-1975.....	8.4	8.2	5.9	10.7	8.4	24.7	4.6	8.9	9.2	5.3
1975-1980.....	13.4	16.1	17.5	14.8	11.8	17.2	6.9	12.1	12.1	11.2
1980-1984.....	1.1	2.7	1.0	4.3	.1	.8	-3	6.1	(NA)	(NA)

NA Not available. ¹ Planned capital expenditures reported by business in April and May.

Source of tables 896 and 897: U.S. Bureau of Economic Analysis; *Survey of Current Business*, monthly.

NO. 898. COMPOSITE INDEXES OF ECONOMIC CYCLICAL INDICATORS: 1974 TO 1983

(1983 figures are preliminary. See source for discussion of composite indexes. Minus sign (-) indicates decrease)

ITEM	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
LEADING INDICATORS											
Composite index.....	1967=100..	121.2	115.7	130.9	139.4	145.8	145.1	138.2	140.9	136.8	156.0
Net business formation.....	1967=100..	109.2	107.0	115.6	123.2	128.2	128.3	122.4	118.6	113.2	114.8
Building permits ¹	1967=100..	92.2	80.9	111.8	144.9	145.4	123.6	96.7	80.0	80.7	129.4
Common stock prices, index ²	1941=43=10.....	82.8	86.2	102.0	98.2	96.0	103.0	118.8	128.0	119.7	160.4
Initial claims, unemployment insurance.....	1,000.....	351	468	381	368	338	378	480	446	578	426
Change in sensitive prices ³	Percent.....	-1	-3	1	4	1.3	9	-	-6	-7	1.0
Change in credit outstanding ⁴	Percent.....	10.5	9.5	10.1	15.2	14.6	13.4	6.2	7.3	1.9	4.9
Vendor performance, slower deliveries.....	Percent.....	66	90	55	84	63	40	45	37	54	54
Average workweek, manufacturing ⁵	Hours.....	40.0	39.5	40.1	40.3	40.4	40.2	39.7	39.8	36.9	40.1
Change in inventories (1972 dol.) ⁶	Bil. dol.....	10	-17	8	13	20	8	-8	1	-16	2
Plant and equipment contracts and orders (1972 dol.).....	Bil. dol.....	149	117	132	146	172	185	170	166	149	163
New orders, manufacturing, consumer goods and materials (1972 dol.).....	Bil. dol.....	396	342	391	433	458	450	400	399	353	410
Money supply (M2) ⁷ (1972 dol.).....	Bil. dol.....	753	754	805	852	859	836	796	789	814	889
COINCIDENT INDICATORS											
Composite index.....	1967=100..	126.4	116.2	124.8	133.6	144.0	150.2	144.8	146.0	136.3	139.9
Industrial production index.....	1927=100..	129.3	117.8	130.5	138.2	146.1	152.5	147.1	151.0	138.6	147.6
Employees, nonagricultural payroll.....	Million.....	78.3	76.9	79.4	82.5	86.7	89.8	90.4	91.2	89.6	90.1
Personal income less transfer payments (1972 dol.).....	Bil. dol.....	882	867	909	956	1,012	1,047	1,043	1,075	1,072	1,095
Sales, mfg. and trade (1972 dol.).....	Bil. dol.....	1,672	1,569	1,662	1,797	1,901	1,942	1,887	1,909	1,525	1,617
LAGGING INDICATORS											
Composite index.....	1967=100..	117.0	110.9	103.5	106.4	114.0	122.6	124.6	122.4	123.0	111.7
Labor cost per unit of output, mfg. ⁸	Percent.....	99.0	104.6	100.0	100.1	99.5	98.7	102.1	100.7	102.0	91.9
Ratio, consumer installment credit to personal income.....	Percent.....	13.6	13.0	12.9	13.6	14.4	14.9	14.3	13.3	13.1	13.3
Average prime rate charged by banks.....	Percent.....	10.8	7.9	8.8	8.9	9.1	12.7	15.3	18.9	14.8	10.8
Average duration of unemployment.....	Weeks.....	9.8	14.2	15.8	14.3	11.9	10.8	11.9	13.7	15.6	20.0
Ratio inventories to sales, mfg. and trade (1972 dol.).....	Ratio.....	1.6	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.6
Commercial and industrial loans outstanding (1972 dol.) ¹⁰	Bil. dol.....	96	90	80	79	82	87	89	93	107	104

- Represents zero. ¹ New private housing units authorized. ² Standard and Poor, 500 stocks. ³ Producer price index of selected crude and intermediate materials and spot market price index of raw industrial materials. ⁴ Weighted 4-term moving average placed at the terminal month of the span. ⁵ Business and consumer borrowing. ⁶ Production workers. ⁷ Net changes in book value. ⁸ See table 844. ⁹ Actual data as percent of trend. ¹⁰ Includes commercial paper issued by nonfinancial companies.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, monthly.

NO. 899. INTERNATIONAL ECONOMIC COMPOSITE INDEXES—AVERAGE ANNUAL PERCENT CHANGE: 1960 TO 1983

(Average annual percent changes derived from indexes with base 1960=100. Minus sign (-) indicates decrease)

YEARS	4 European countries	7 countries excluding U.S.	8 countries	United States	Canada	France	Italy	Japan	United Kingdom	West Germany	Australia
Leading index											
1960-1965.....	2.9	3.0	4.2	5.6	5.5	5.0	3.0	2.5	1.1	3.4	4.0
1965-1970.....	3.3	4.7	3.2	1.4	2.5	5.7	3.9	9.2	.7	3.9	5.5
1970-1975.....	1.8	2.0	2.2	2.6	4.5	2.7	3.0	1.9	.8	1.3	1.9
1975-1980.....	4.3	5.7	4.9	3.0	4.7	5.7	4.4	9.2	1.8	5.1	5.6
1974-1975.....	-3.1	-6.2	-4.5	-2.2	-2.5	-7.6	-6	-14.1	-3.3	-4	-1.8
1975-1976.....	7.3	9.3	10.3	11.7	4.4	10.0	4.2	14.9	4.6	9.3	7.9
1976-1977.....	2.3	2.1	3.7	8.2	2.8	.8	.4	1.5	4.1	2.7	.6
1977-1978.....	4.3	5.5	5.6	5.2	6.5	5.1	3.0	7.8	1.7	6.3	6.4
1978-1979.....	6.5	9.4	5.6	.7	6.5	8.8	8.3	16.3	1.9	7.5	9.2
1979-1980.....	1.3	2.8	-	-3.9	1.6	3.8	6.4	6.0	-3.1	.2	4.2
1980-1981.....	1.8	-	1.4	3.4	1.3	3.3	3.8	-3.5	.6	-	1.1
1981-1982.....	2.4	.9	-1.8	-5.5	-9.2	3.4	.9	.8	2.3	2.2	-4.8
1982-1983.....	5.1	5.1	8.2	12.9	13.6	5.8	2.1	3.2	3.5	7.2	7.4
Coincident index											
1960-1965.....	5.7	7.3	6.3	5.3	5.8	8.8	3.7	15.6	3.9	6.6	6.4
1965-1970.....	4.3	6.5	5.4	4.0	4.4	5.9	5.9	13.3	1.3	5.3	7.7
1970-1975.....	2.1	3.1	2.5	1.7	5.3	3.6	2.4	4.5	1.2	1.5	4.3
1975-1980.....	3.0	3.4	3.9	4.5	3.1	3.4	3.7	4.7	.9	3.9	1.9
1974-1975.....	-4.0	-3.2	-4.5	-6.6	.7	-5.0	-4.7	-1.6	-4.1	-2.5	-3.5
1975-1976.....	2.8	3.2	4.8	7.4	4.9	5.0	4.0	3.9	-9	3.5	1.6
1976-1977.....	2.7	3.0	4.6	6.9	1.6	3.7	2.0	4.8	1.1	3.5	-1.4
1977-1978.....	3.6	3.7	5.4	7.6	3.2	2.7	2.5	4.7	4.6	4.0	1.4
1978-1979.....	4.3	4.7	4.4	3.9	4.5	3.5	4.7	5.8	3.8	5.2	3.2
1979-1980.....	1.5	2.6	.3	-2.7	1.7	2.0	5.3	4.3	-3.6	3.4	4.7
1980-1981.....	-2.4	-	.5	1.4	3.0	-1.9	-7	3.1	-7.2	-2	5.7
1981-1982.....	-6	-2	-2.5	-5.9	-5.9	1.4	-7	2.7	-1.5	-1.8	-2.2
1982-1983.....	-3	.4	1.6	3.4	1.8	.6	-2.7	2.0	.3	-	-6.8

- Represents zero.

Source: Center for International Business Cycle Research, Columbia Business School, New York, NY, *International Economic Indicators*, monthly.

No. 900. BUSINESS CYCLE EXPANSIONS AND CONTRACTIONS—MONTHS OF DURATION: 1919 TO 1982

[The lower turning point of a cycle is considered a trough, the upper turning point a peak. Business cycle reference dates are determined by the National Bureau of Economic Research, Inc.]

BUSINESS CYCLE REFERENCE DATE		Contraction (trough from previous peak)	Expansion (trough to peak)	LENGTH OF CYCLE	
Trough	Peak			Trough from previous trough	Peak from previous peak
March 1919.....	January 1920.....	7	10	51	17
July 1921.....	May 1923.....	18	22	28	40
July 1924.....	October 1926.....	14	27	36	41
November 1927.....	August 1929.....	13	21	40	34
March 1933.....	May 1937.....	43	50	64	93
June 1938.....	February 1945.....	13	80	63	93
October 1945.....	November 1948.....	8	37	88	45
October 1949.....	July 1953.....	11	45	48	56
May 1954.....	August 1957.....	10	39	55	49
April 1958.....	April 1960.....	8	24	47	32
February 1961.....	December 1969.....	10	106	34	116
November 1970.....	November 1973.....	11	36	117	47
March 1975.....	January 1980.....	16	58	52	74
July 1980.....	July 1981.....	6	12	64	18
November 1982.....	(X).....	16	(X)	28	(X)
Average, all cycles:					
1919-1945 (6 cycles).....		18	35	53	53
1945-1982 (8 cycles).....		11	45	56	55
Average, peacetime cycles:					
1919-1945 (5 cycles).....		20	26	46	45
1945-1982 (6 cycles).....		11	34	45	44

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, July 1984.

No. 901. MANUFACTURING AND TRADE—SALES AND INVENTORIES IN CURRENT AND CONSTANT (1972) DOLLARS: 1965 TO 1983

[In billions of dollars, except ratios. See *Historical Statistics, Colonial Times to 1970*, series V 78-107, for single year figures prior to revisions issued in 1981]

ITEM	1965	1970 ¹	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
CURRENT DOLLARS												
Sales, average monthly.....	80	107	178	182	204	230	280	298	327	356	344	367
Manufacturing.....	41	53	85	87	99	113	127	144	154	166	159	171
Retail trade.....	24	31	45	49	55	60	67	75	80	87	90	98
Merchant wholesalers.....	16	24	48	47	51	56	66	78	93	101	95	99
Inventories ²	121	178	288	288	319	351	398	450	491	524	506	514
Manufacturing.....	68	102	158	160	175	189	210	241	264	282	265	260
Retail trade.....	34	44	71	72	79	89	103	111	116	126	125	136
Merchant wholesalers.....	18	33	57	57	64	72	86	98	112	116	116	118
Inventory-sales ratio ³	1.45	1.62	1.45	1.57	1.48	1.46	1.44	1.43	1.45	1.43	1.50	1.37
Manufacturing.....	1.60	1.90	1.65	1.84	1.69	1.61	1.57	1.57	1.66	1.64	1.73	1.52
Retail trade.....	1.39	1.41	1.48	1.44	1.38	1.39	1.43	1.44	1.41	1.39	1.39	1.33
Merchant wholesalers.....	1.15	1.29	1.07	1.21	1.19	1.21	1.20	1.18	1.14	1.13	1.23	1.17
CONSTANT (1972) DOLLARS												
Sales, average monthly.....	98	116	141	132	142	152	160	164	160	161	154	164
Manufacturing.....	50	56	67	62	67	72	76	78	74	75	70	75
Retail trade.....	29	34	40	40	43	45	47	48	46	47	46	50
Merchant wholesalers.....	19	26	34	31	32	34	37	38	39	39	37	39
Inventories.....	149	194	233	225	235	246	260	264	264	269	259	259
Manufacturing.....	87	113	131	127	131	134	140	145	146	148	139	136
Retail trade.....	37	46	58	56	59	63	67	66	63	68	64	68
Merchant wholesalers.....	25	35	44	42	45	49	53	53	55	56	55	55
Inventory-sales ratios ⁴	1.48	1.70	1.73	1.67	1.63	1.59	1.58	1.62	1.63	1.71	1.71	1.52
Manufacturing.....	1.69	2.07	2.04	2.04	1.91	1.82	1.79	1.89	1.83	2.04	2.05	1.73
Retail trade.....	1.25	1.37	1.57	1.36	1.36	1.39	1.41	1.39	1.37	1.43	1.37	1.32
Merchant wholesalers.....	1.27	1.35	1.37	1.36	1.39	1.39	1.38	1.38	1.37	1.44	1.50	1.34

¹ Beginning 1970, data not comparable with earlier years due to revised procedures.

² Book value; seasonally adjusted and end-of-year data. See text, page 514. ³ Average inventories to average monthly sales. Average inventories based on weighted averages of end-of-month figures.

⁴ End of fourth quarter inventories to average month sales for fourth quarter.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-1976*; *Survey of Current Business*, July 1982, September 1983, September 1984, and unpublished data.

No. 902. MANUFACTURING CORPORATIONS, ASSETS, AND PROFITS, BY ASSET SIZE: 1970 TO 1983

[Corporations and assets as of end of 4th quarter; profit for entire year. Through 1979 corporations under \$10 million based on sample; \$10 million and over based on complete canvass thereafter, under \$25 million based on sample and \$25 million and over based on complete canvass. For details regarding methodology, see source for fourth quarter, 1981]

YEAR AND ITEM	Unit	Total	ASSET-SIZE CLASS							
			Under \$10 mil.	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100-\$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over	
1970: ¹ Corporations.....	Number.....	197,807	* 195,000	1,202	533	366	289	218	102	
Assets, total.....	Mil. dol.....	578,234	69,101	20,471	20,138	25,946	47,783	112,476	282,320	
Net profit, total ²	Mil. dol.....	28,572	2,812	811	836	1,101	2,315	5,862	14,832	
1972: Corporations.....	Number.....	(NA)	(NA)	1,323	543	362	317	235	115	
Assets, total.....	Mil. dol.....	623,823	73,884	21,219	19,049	25,138	48,815	114,550	321,156	
Net profit, total ²	Mil. dol.....	7,934	895	224	207	287	562	1,329	4,420	
1973: Corporations.....	Number.....	(NA)	(NA)	1,462	597	402	327	246	124	
Assets, total.....	Mil. dol.....	742,266	89,305	26,902	23,373	30,223	53,075	126,635	392,753	
Net profit, total ²	Mil. dol.....	48,058	6,634	1,731	1,360	1,844	3,142	8,063	25,264	
1974: Corporations.....	Number.....	(NA)	(NA)	1,699	708	434	383	284	137	
Assets, total.....	Mil. dol.....	768,954	97,858	28,808	24,734	30,690	60,262	171,821	384,681	
Net profit, total ²	Mil. dol.....	58,747	7,717	1,896	1,365	2,126	3,700	9,661	32,260	
1975: Corporations.....	Number.....	(NA)	(NA)	1,750	705	450	392	276	151	
Assets, total.....	Mil. dol.....	810,910	98,147	31,307	24,720	31,395	62,524	139,113	423,705	
Net profit, total ²	Mil. dol.....	49,135	6,212	1,831	1,327	1,676	3,553	8,185	26,370	
1976: Corporations.....	Number.....	(NA)	(NA)	1,705	757	472	400	301	162	
Assets, total.....	Mil. dol.....	883,860	98,355	32,244	26,538	32,970	62,633	149,412	481,709	
Net profit, total ²	Mil. dol.....	64,519	7,799	2,238	1,714	2,070	3,945	10,422	36,330	
1977: Corporations.....	Number.....	(NA)	(NA)	1,793	809	501	409	327	174	
Assets, total.....	Mil. dol.....	962,996	102,241	35,603	28,595	35,032	63,590	160,107	537,830	
Net profit, total ²	Mil. dol.....	70,366	8,683	2,189	1,867	2,252	4,401	11,206	39,789	
1978: Corporations.....	Number.....	(NA)	(NA)	1,780	802	518	408	320	181	
Assets, total.....	Mil. dol.....	1,086,433	114,006	38,358	30,813	37,429	66,907	164,556	633,963	
Net profit, total ²	Mil. dol.....	81,185	9,417	2,487	2,264	2,602	4,712	12,311	47,391	
1979: Corporations.....	Number.....	(NA)	(NA)	1,818	979	571	470	341	225	
Assets, total.....	Mil. dol.....	1,242,985	124,853	42,007	34,082	40,336	73,172	169,599	758,937	
Net profit, total ²	Mil. dol.....	98,698	10,119	2,720	2,347	2,898	5,347	13,412	61,854	
1980: Corporations.....	Number.....	(NA)	(NA)	1,777	941	590	491	369	244	
Assets, total.....	Mil. dol.....	1,384,474	128,939	43,569	34,930	41,963	75,284	179,959	882,129	
Net profit, total ²	Mil. dol.....	92,443	7,770	2,235	1,904	2,479	4,532	11,485	62,041	
1981: Corporations.....	Number.....	(NA)	(NA)	1,845	845	603	520	376	259	
Assets, total.....	Mil. dol.....	1,560,353	136,915	57,453	39,756	43,824	82,287	188,913	1,011,105	
Net profit, total ²	Mil. dol.....	101,302	8,863	3,077	1,944	2,415	4,560	10,087	70,354	
1982: Corporations.....	Number.....	(NA)	(NA)	820	642	510	378	275	175	
Assets, total.....	Mil. dol.....	1,614,018	141,363	55,327	38,333	48,013	78,786	180,047	1,072,169	
Net profit, total ²	Mil. dol.....	71,028	5,193	2,278	1,196	1,421	2,643	6,892	51,405	
1983: Corporations.....	Number.....	(NA)	(NA)	872	683	559	403	275	175	
Assets, total.....	Mil. dol.....	1,704,951	149,791	54,506	41,786	52,673	87,391	194,212	1,124,612	
Percent.....	Percent.....	100.0	8.8	3.2	2.4	3.1	5.1	11.4	66.0	
Net profit, total ²	Mil. dol.....	85,934	7,438	2,893	2,149	2,466	3,861	6,134	60,893	
Percent.....	Percent.....	100.0	8.7	3.4	2.5	2.9	4.5	7.1	70.9	

NA Not available. ¹ Source: U.S. Securities and Exchange Commission. ² Data derived from U.S. Internal Revenue Service, *Statistics of Income*, annual. ³ After taxes.

Source: Except as noted, through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

No. 903. LARGEST INDUSTRIAL CORPORATIONS—SALES, ASSETS, NET INCOME, AND EMPLOYEES, BY SALES GROUP RANK: 1981 TO 1983

[Sales, assets, and net income in billions of dollars; employees in thousands, except percent. Excludes large privately owned companies that do not publish sales. Includes service and rental revenues, but companies must derive more than 50 percent of revenues from manufacturing or mining for years ending not later than Dec. 31 of year stated, except 1981, no later than January; sales exclude excise taxes collected by manufacturer and include discontinued operations]

RANK BY SALES GROUP	SALES			ASSETS ¹			NET INCOME ²			EMPLOYEES ³		
	1981	1982	1983	1981	1982	1983	1981	1982	1983	1981	1982	1983
First 500 largest.....	1,773.4	1,672.2	1,686.7	1,282.8	1,308.7	1,353.9	84.2	61.4	68.8	15,635	14,362	14,053
Top 100.....	1,207.0	1,147.4	1,161.1	843.3	878.1	913.6	55.2	43.2	52.6	8,889	8,387	8,313
101-200.....	282.9	264.7	262.9	223.3	218.2	227.0	14.7	8.8	7.1	3,227	2,907	2,797
201-300.....	143.6	132.4	132.9	113.9	114.2	109.9	8.7	5.3	5.0	1,756	1,492	1,367
301-400.....	84.5	77.3	76.6	64.6	62.8	65.6	3.3	2.3	2.4	1,062	983	967
401-500.....	55.5	50.4	51.2	37.8	35.3	37.8	2.4	1.7	1.8	702	591	608
Percent of total, first 500:												
Top 100.....	68.1	68.6	68.8	65.7	67.1	67.5	65.6	70.4	76.5	56.9	58.4	59.2
101-200.....	16.0	15.8	15.6	17.4	16.7	16.8	17.4	14.3	10.3	20.6	20.2	19.7
201-300.....	8.1	7.9	7.9	8.9	8.7	8.1	10.3	8.7	7.2	11.2	10.4	9.9
301-400.....	4.8	4.6	4.7	5.0	4.6	4.8	3.9	3.6	3.5	6.8	6.8	6.9
401-500.....	3.1	3.0	3.0	2.9	2.7	2.8	2.8	2.6	2.6	4.5	4.1	4.3

¹ Total assets employed in business at end of fiscal year, less depreciation and depletion.

² After taxes, special charges, and credits. ³ As of year end, or yearly average.

Source: Time, Inc., New York, NY, *The Fortune Directory*, May and June issues. (Copyright.)

No. 904. 500 LARGEST INDUSTRIAL CORPORATIONS—SELECTED FINANCIAL ITEMS, BY INDUSTRY: 1982 AND 1983

[Data are ranked based on sales per employee for latest year shown. See headnote, table 903. Minus sign (—) indicates decrease. For definition of median, see Guide to Tabular Presentation]

INDUSTRY	SALES PER EMPLOYEE (\$1,000)		CHANGES IN PROFITS (percent)		SALES PER DOLLAR OF STOCKHOLD- ER'S EQUITY (dol.)		RETURN ON STOCKHOLD- ER'S EQUITY (percent)		RETURN ON SALES (percent)		TOTAL RETURN TO INVESTORS ¹ (percent)	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
Total	90.8	92.2	-27.1	12.0	2.74	2.66	10.9	10.6	3.6	3.8	22.2	30.2
Petroleum refining	515.7	481.4	-14.9	-9.1	3.28	2.91	12.5	9.4	4.0	3.4	-10.8	22.4
Mining, crude-oil production.....	195.9	172.6	-47.5	3.7	1.67	1.83	9.0	8.9	3.0	6.1	-22.6	36.8
Beverages.....	120.0	142.2	8.5	23.0	3.00	3.59	16.7	16.9	5.4	6.0	45.5	48.6
Food.....	123.8	130.5	7.1	8.9	4.88	4.55	15.3	14.5	3.3	2.7	39.7	26.0
Chemicals.....	114.8	123.7	-30.8	26.9	2.28	2.31	8.6	10.0	3.9	3.5	9.5	34.4
Soaps, cosmetics.....	111.9	113.1	9.1	2.1	2.88	2.71	16.0	14.7	5.2	5.5	42.6	6.8
Metal manufacturing.....	101.8	108.7	-100.0	27.0	2.74	2.78	-	-	-	-	-11.6	42.5
Paper, fiber, wood products.....	100.8	107.4	-39.1	22.4	2.41	2.39	8.0	7.1	3.2	3.7	28.6	34.1
Rubber, plastic products.....	94.6	99.0	-50.4	171.5	3.54	3.03	1.9	10.0	.9	3.1	71.0	13.7
Glass, concrete, abrasives, gypsum.....	84.4	93.0	-40.8	78.3	2.50	2.16	4.3	8.0	1.5	3.4	25.9	9.5
Pharmaceuticals.....	83.4	90.2	13.3	13.5	1.82	1.93	16.9	17.5	9.9	10.4	32.8	7.2
Publishing, printing.....	82.3	87.9	10.4	21.0	2.24	2.18	15.5	17.8	6.5	7.5	48.9	27.1
Shipbuilding, railroad and transportation equipment ²	78.2	87.9	-20.3	10.8	3.79	3.77	8.6	11.6	2.8	2.9	11.2	39.4
Motor vehicles.....	83.6	86.2	-55.4	118.6	3.28	3.18	5.1	10.1	2.1	3.7	39.0	42.8
Metal products.....	83.4	83.4	-16.7	13.0	3.08	2.88	12.2	9.5	3.7	4.0	9.1	33.1
Industrial and farm equipment.....	82.9	79.0	-37.3	-15.8	2.43	2.25	9.6	4.7	3.2	1.8	-1.2	34.4
Musical instruments, toys, sporting goods.....	68.7	77.2	291.6	-	3.96	3.86	(NA)	-	(NA)	-	46.8	2.1
Aerospace.....	76.8	77.1	-30.9	23.6	4.19	3.66	11.7	13.5	2.8	3.6	30.7	32.9
Measuring, scientific, photo. equip.....	69.0	70.1	-7.1	-2.6	2.09	1.94	13.0	9.9	5.9	5.1	6.8	23.8
Electronics, appliances.....	63.0	67.6	-1.1	9.7	2.66	2.70	11.6	12.0	4.5	4.8	37.7	26.9
Office equipment (incl. computers).....	62.7	66.4	8.9	8.7	1.95	1.88	12.1	11.1	5.7	5.7	28.8	28.8
Textiles, vinyl flooring.....	53.7	55.3	4.9	22.2	2.85	2.95	6.3	6.7	2.1	3.2	54.4	32.3
Apparel.....	47.6	48.6	12.5	23.2	3.53	3.28	12.3	13.0	3.4	3.6	47.2	41.6

- Represents zero. NA Not available.

¹ Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock. ² Excludes motor vehicles and aircraft.

Source: Time, Inc., New York, NY, *The Fortune Directory*, May issues. (Copyright).

No. 905. CORPORATE FUNDS—SOURCES AND USES: 1965 TO 1983

[In billions of dollars, except percent. Covers nonfarm nonfinancial corporate business. See text, p. 514]

SOURCE AND USE	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983
Sources, total	91.8	102.3	157.0	254.1	317.5	345.7	333.2	365.8	308.6	427.7
Internal.....	58.5	61.8	119.7	157.4	175.7	188.8	189.5	230.6	240.5	280.8
Domestic undistributed profits.....	19.1	7.5	34.0	54.7	62.8	67.3	49.0	49.7	19.0	20.3
IVA and CCA ¹	2.5	-4.1	-21.1	-26.8	-36.1	-56.8	-57.2	-32.4	-7.6	22.9
Capital consumption allowances.....	32.5	51.8	93.8	114.3	129.2	147.7	167.8	189.7	207.3	215.4
Foreign earnings ²	4.5	6.5	13.0	18.1	19.7	30.6	29.9	23.7	21.6	22.2
External ³	33.3	40.5	37.3	96.7	141.8	156.9	143.7	135.2	68.1	146.8
Percent of total.....	36.3	39.6	23.8	38.1	44.7	45.4	43.1	37.0	22.1	34.3
Credit market funds.....	18.5	35.3	30.8	72.4	80.5	88.2	90.9	92.2	84.1	85.7
Securities and mortgages.....	7.6	26.3	38.7	35.8	32.8	20.9	52.4	22.6	45.2	55.6
Equity issues.....	-	5.7	9.9	2.7	-1	-7.8	12.9	-11.5	11.4	28.3
Bonds and mortgages ⁴	7.6	20.6	28.7	33.1	32.9	28.7	39.6	34.0	33.8	27.3
Loans and short-term paper.....	11.0	9.0	-7.9	36.6	47.7	67.3	38.5	69.7	38.9	30.1
Other.....	14.8	5.3	6.5	24.3	61.3	68.8	52.7	43.0	-15.9	61.1
Profit taxes payable.....	2.2	-3.7	-2.4	-1.5	4.3	2.5	-1.7	-6.8	-16.2	3.3
Trade debt.....	12.2	7.5	6.3	22.1	49.1	54.4	40.8	27.8	-10.2	49.1
Foreign direct investments in U.S.....	.4	1.5	2.6	3.7	7.9	11.9	13.7	22.0	10.4	8.7
Uses, total	82.7	98.7	150.9	237.6	293.6	346.7	320.1	324.3	251.0	381.2
Capital expenditures.....	61.0	80.0	109.7	175.1	201.6	219.4	221.2	281.6	231.2	260.1
Increase in financial assets.....	21.8	18.7	41.2	62.5	92.0	127.3	98.9	82.7	19.7	121.1
Discrepancy (sources less uses).....	9.1	3.6	6.0	16.5	23.8	-1.0	13.1	41.6	57.7	46.5

- Represents zero. ¹ Inventory valuation and capital consumption adjustment. ² Foreign branch profits, dividends, and subsidiaries earnings retained abroad. ³ Net increases in liability. ⁴ Includes industrial pollution control revenue bonds, issued by State and local governments.

Source: Board of Governors of the Federal Reserve System. Data derived from *Flow of Funds Accounts*, annual.

No. 906. CORPORATE PROFITS, TAXES, AND DIVIDENDS: 1970 TO 1983

[In billions of dollars. Covers corporations organized for profit. Represents profits to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends, reinvested earnings of incorporated foreign affiliates, and earnings of unincorporated foreign affiliates are added]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Profits before taxes	75.4	136.7	132.1	166.3	194.7	229.1	252.7	234.6	221.2	165.5	203.2
Less: Income tax liability	34.2	51.6	50.6	63.8	72.7	83.2	87.6	84.8	81.1	60.7	75.8
Equals: Profits after taxes	41.3	85.1	81.5	102.5	122.0	145.9	165.1	149.8	140.0	104.8	127.4
Less: Net dividends	22.5	29.1	30.8	37.4	40.8	47.0	52.7	58.6	66.5	69.2	72.9
Equals: Undistributed profits	18.8	55.2	50.7	65.1	81.2	98.9	112.4	91.2	73.5	35.6	54.5
Capital consumption allowances	56.6	61.5	89.4	96.3	110.2	124.9	142.7	163.0	195.0	224.8	264.4
Profits after tax plus capital consumption allowances	97.9	166.6	170.9	198.8	232.2	270.7	307.8	312.8	335.0	329.7	391.8

¹ Federal, State and local. ² Disbursements to U.S. residents, measured after eliminations of intercorporate dividends.

³ Without capital consumption adjustment. Includes depreciation and accidental damages.

No. 907. CORPORATE PROFITS: 1965 TO 1983

[In billions of dollars. Profit figures are with inventory valuation adjustment and without capital consumption adjustment]

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total.....	76.0	68.9	105.6	96.7	120.6	151.6	178.5	205.1	209.6	191.7	197.6	156.0	192.0
Domestic industries	71.5	62.4	92.0	80.4	107.6	137.4	163.4	185.4	179.0	161.9	173.2	133.6	167.2
Financial	7.5	12.1	15.9	15.0	11.8	17.1	23.1	31.0	30.3	26.9	19.5	19.6	29.6
Nonfinancial	64.0	50.2	76.0	65.4	95.8	120.3	140.3	154.4	148.6	134.9	153.7	114.0	137.6
Manufacturing	39.3	26.6	45.5	39.0	52.6	69.2	78.3	86.9	85.6	72.9	84.9	54.5	65.2
Wholesale and retail trade	8.1	9.5	13.9	12.5	21.3	22.4	26.6	26.9	27.1	23.6	31.8	25.9	33.4
Other	16.6	14.1	16.7	14.0	21.9	28.7	35.4	40.6	36.0	38.4	37.0	33.6	38.9
Rest of the world	4.5	6.5	13.7	16.3	13.0	14.3	15.1	19.7	30.6	29.9	24.4	22.4	24.8

Source of tables 906 and 907: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues.

No. 908. CORPORATE PROFITS, BY INDUSTRY: 1965 TO 1983

[In billions of dollars. Profits are without inventory valuation and capital consumption adjustments. Minus sign (-) indicates loss. See headline, table 906]

YEAR	All industries	Manufacturing	Wholesale, retail trade	Finance, insurance ¹	Public utilities	Services	Communication	Construction	Mining	Agriculture ²	Transportation	Rest of the world ³
BEFORE TAXES												
1965.....	77.2	39.9	8.6	8.9	4.7	1.8	4.2	1.6	.9	.2	2.2	4.5
1970.....	75.4	30.4	11.5	13.3	4.0	1.8	4.6	2.1	1.0	.1	.2	6.5
1973.....	126.6	55.5	21.8	16.6	4.0	3.5	4.1	2.4	1.7	.9	1.4	13.7
1974.....	136.7	59.3	25.6	15.7	3.2	3.9	2.5	4.2	1.4	.8	2.4	16.3
1975.....	132.1	57.8	26.2	12.4	5.5	4.4	3.8	3.0	4.1	.8	1.2	13.0
1976.....	166.3	75.6	27.6	18.9	7.3	5.7	5.5	3.3	4.1	.7	3.2	14.3
1977.....	194.7	86.1	31.8	26.4	8.8	7.4	6.5	4.7	3.3	.6	3.9	15.1
1978.....	229.1	96.8	37.6	35.1	9.0	8.7	8.4	5.8	2.6	1.2	4.2	19.7
1979.....	252.7	104.5	42.8	34.2	8.6	9.5	7.5	5.9	3.5	1.2	4.2	30.6
1980.....	234.6	92.1	40.7	29.0	9.7	9.6	7.5	5.7	6.4	.6	3.4	29.9
1981.....	221.2	96.5	39.0	20.4	11.2	11.3	8.1	4.1	4.0	.3	1.9	24.4
1982.....	165.5	58.6	29.0	20.4	12.2	11.1	7.3	3.5	1.5	—1	—4	22.4
1983.....	203.2	70.0	39.3	31.1	14.5	11.6	8.2	3.3	1.0	(z)	1.5	24.8
AFTER TAXES												
1965.....	46.3	23.0	5.3	4.5	2.6	1.0	2.3	1.1	.7	.1	1.3	4.5
1970.....	41.3	15.6	6.8	5.4	2.2	.8	2.3	1.3	.7	(z)	—2	6.5
1973.....	76.6	31.4	14.2	6.3	2.5	2.2	2.5	1.4	1.3	.6	.6	13.7
1974.....	85.1	34.1	17.3	5.3	1.7	2.0	2.4	1.5	3.0	.2	1.4	16.3
1975.....	81.5	33.1	17.9	2.2	3.9	3.0	3.0	1.8	2.9	.5	.3	13.0
1976.....	102.5	42.2	18.6	6.4	5.4	4.0	4.0	2.1	3.0	.4	2.1	14.3
1977.....	122.0	48.8	21.8	11.6	6.4	5.4	4.7	3.3	2.1	.3	2.8	15.1
1978.....	145.9	55.8	25.9	16.7	6.6	6.0	5.9	4.1	1.4	.8	2.8	19.7
1979.....	165.1	62.6	30.1	13.7	6.4	6.6	5.7	3.9	2.1	.8	2.6	30.6
1980.....	149.8	52.9	26.6	9.2	7.0	6.6	5.6	3.5	4.6	.2	1.7	29.9
1981.....	140.0	59.9	27.2	1.3	8.4	8.0	6.3	2.2	2.3	(z)	.3	24.4
1982.....	104.8	33.7	18.5	3.2	10.4	8.6	6.0	2.5	.7	—1	—10	22.4
1983.....	127.4	36.9	25.8	11.6	12.2	8.0	4.6	2.6	.6	(z)	.3	24.6

¹ Less than \$50 million. ² Includes real estate. ³ Includes forestry and fisheries. ⁴ Consists of receipts by all U.S. residents, including both corporations and persons, of earnings of unincorporated foreign affiliates, dividends from their incorporated foreign affiliates, and their share of reinvested earnings of their incorporated foreign affiliates, net of corresponding outflows.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*; and *Survey of Current Business*, July issues.

NO. 909. MANUFACTURING CORPORATIONS—SALES, PROFITS, STOCKHOLDERS' EQUITY, AND DEBT:
1960 TO 1983

(In billions of dollars. Prior to 1970, excludes newspapers. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. See also *Historical Statistics, Colonial Times to 1970*, series P 93-106)

YEAR	ALL MANUFACTURING CORPS.					DURABLE GOODS INDUSTRIES					NONDURABLE GOODS INDUSTRIES				
	Profits			Stock-hold-ers' equity ¹	Debt ¹	Profits			Stock-hold-ers' equity ¹	Debt ¹	Profits			Stock-hold-ers' equity ¹	Debt ¹
	Sales (net)	Be-fore taxes	After taxes			Sales (net)	Be-fore taxes	After taxes			Sales (net)	Be-fore taxes	After taxes		
1960.....	346	27.5	15.2	165	40.5	174	14.0	7.0	82	20.5	172	13.5	8.2	83	20.0
1965.....	492	46.5	27.5	212	57.9	257	26.2	14.5	105	28.4	235	20.3	13.0	106	29.5
1970.....	709	48.1		307	133.9	363	23.0	12.9	155	70.7	346	25.2	15.7	152	63.2
1972.....	850	63.2	36.5	343	149.0	436	33.6	18.4	171	77.0	414	29.6	18.0	172	72.0
1973.....	1,017	81.4	48.1	374	164.3	527	43.6	24.8	189	86.1	490	37.8	23.3	185	78.2
1974.....	1,061	92.1	58.7	395	167.4	529	41.1	24.7	196	87.1	532	51.0	34.1	199	80.3
1975.....	1,065	79.9		423	183.2	521	35.3	21.4	208	84.4	544	44.6	27.7	215	88.8
1976.....	1,203	104.9	64.5	463	187.8	590	50.7	30.8	224	91.1	614	54.3	33.7	238	96.7
1977.....	1,328	115.1	70.4	497	200.4	657	57.9	34.8	240	94.8	671	57.2	35.6	257	105.6
1978.....	1,496	132.5	81.2	541	222.4	761	69.6	41.8	263	105.8	736	83.0	39.4	278	116.6
1979.....	1,742	154.2	98.7	600	252.2	866	72.4	45.2	292	122.8	876	81.8	43.5	308	129.4
1980.....	1,897	145.4	92.4	665	292.1	883	57.2	35.6	316	142.8	1,014	86.2	56.9	349	149.3
1981.....	2,145	158.5	101.3	743	334.9	979	67.2	41.7	350	159.4	1,165	91.3	59.6	393	175.5
1982.....	2,039	108.3	71.0	770	370.6	913	34.7	21.7	356	177.4	1,126	73.6	49.4	415	183.2
1983.....	2,114	133.1	85.8	813	367.5	973	48.7	30.0	372	167.9	1,141	84.4	55.8	440	199.6

¹ Annual data are average equity or debt for the year (using four end-of-quarter figures).

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

NO. 910. MANUFACTURING CORPORATIONS—PROFITS, STOCKHOLDERS' EQUITY, SALES, AND DEBT RATIOS: 1980 TO 1983

[Averages of quarterly figures at annual rates. Based on sample; see source for discussion of methodology. Minus (—) sign indicates loss. See headnote, table 909]

INDUSTRY GROUP	RATIOS OF PROFITS TO STOCKHOLDERS' EQUITY (percent)				PROFITS PER DOLLAR OF SALES (cents)				RATIO OF STOCKHOLDERS' EQUITY TO DEBT			
	1980	1981	1982	1983	1980	1981	1982	1983	1980	1981	1982	1983
All manufacturing corporations¹	13.9	13.6	9.3	10.5	4.9	4.7	3.5	4.1	2.3	2.2	2.1	2.2
Durable goods industries	11.2	11.9	6.1	8.0	4.0	4.2	2.4	3.1	2.2	2.2	2.0	2.2
Stone, clay, and glass products.....	10.8	8.8	2.3	5.3	4.2	3.5	.8	2.0	1.9	1.9	1.6	1.7
Primary metal industries.....	11.7	11.6	—9.5	—10.5	4.1	4.0	—4.2	—4.0	1.7	1.7	1.3	1.2
Iron and steel.....	9.0	11.6	—15.4	—17.8	2.9	3.6	—6.2	—5.8	1.7	1.8	1.2	1.0
Nonferrous metals.....	15.6	11.6	—1.8	—1.6	5.8	4.8	—9	—8	1.8	1.7	1.5	1.5
Fabricated metal products.....	13.9	13.3	7.1	8.1	4.2	4.0	2.3	2.6	2.1	2.2	2.1	1.9
Machinery, exc. electrical.....	15.0	14.6	8.6	7.9	6.5	6.4	4.3	4.3	2.2	2.2	2.1	2.7
Electrical and electronic equipment.....	15.1	14.4	11.4	9.9	5.0	5.0	4.2	3.9	2.6	2.6	2.6	2.8
Transportation equipment.....	—6	5.8	5.8	15.7	—3	1.6	1.6	4.2	2.7	2.4	2.2	2.7
Motor vehicles and equipment.....	—9.3	—7	2.0	19.7	—3.4	—3	.5	5.0	3.4	3.0	2.7	3.5
Aircraft, guided missiles and parts.....	16.0	16.0	12.0	12.1	4.3	4.4	3.3	3.5	2.8	2.7	2.5	3.2
Instruments and related products.....	17.5	16.9	14.3	11.9	9.3	9.0	6.0	6.9	4.3	4.5	4.5	4.8
Nondurable goods industries	18.4	15.2	11.9	12.6	5.5	5.1	4.4	4.9	2.3	2.2	2.1	2.2
Food and kindred products.....	14.7	14.0	13.0	12.2	3.4	3.2	3.1	3.3	1.9	1.8	1.8	1.8
Tobacco manufactures.....	19.8	19.8	18.9	18.5	11.7	11.5	11.4	12.1	1.8	1.7	1.8	2.2
Textile mill products.....	8.5	9.4	6.9	12.0	2.2	2.4	2.0	3.3	2.0	2.0	2.0	2.0
Paper and allied products.....	12.1	12.0	5.4	6.6	5.1	5.0	2.4	3.6	2.0	2.0	1.8	1.7
Printing and publishing.....	16.4	14.9	13.5	17.4	5.5	5.0	4.5	5.8	2.1	2.1	2.0	2.1
Chemicals and allied products.....	15.4	14.8	11.1	12.1	7.1	6.9	5.5	5.8	2.2	2.2	2.0	2.2
Industrial.....	11.9	13.2	6.5	7.8	5.4	5.8	3.3	3.7	1.9	1.9	1.8	1.9
Drugs.....	19.9	16.9	19.6	20.3	13.2	10.9	13.1	13.2	3.0	2.8	2.9	2.9
Petroleum and coal products.....	20.0	17.2	13.2	12.6	7.7	6.3	5.5	6.2	3.4	3.0	2.8	2.7
Rubber and misc. plastics products.....	6.7	12.0	8.1	12.3	2.0	3.5	2.5	3.6	1.6	1.8	1.8	2.1

¹ Includes other industries not shown separately.

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

No. 911. GROSS PRODUCT OF U.S. MULTINATIONAL COMPANIES (MNC'S), BY INDUSTRY OF U.S. PARENT: 1977

[In billions of dollars, except percent. Gross product is an economic accounting measure of production. It measures U.S. parent companies' contribution to U.S. gross domestic product (GDP) and their majority-owned foreign affiliates (MOFA's) contribution to foreign GDP. The gross product estimates are based on data from the Bureau of Economic Analysis' 1977 benchmark survey of U.S. direct investment abroad and cover nonbank U.S. parent companies that had at least one nonbank MOFA. (MOFA's are foreign affiliates that were owned by more than 50 percent of all U.S. parents combined and that had assets, sales, or net income of more than \$3 million in 1977.) Detailed data and the methodology of the benchmark survey are published in U.S. Bureau of Economic Analysis, *U.S. Direct Investment Abroad, 1977*, April 1981.]

ITEM	U.S. MNC'S WORLDWIDE			PERCENT DISTRIBUTION	
	Total	U.S. parents	MOFA's	U.S. parents	MOFA's
All Industries	651.7	490.5	161.1	75	25
Mining.....	2.4	2.0	.4	82	18
Metal mining.....	.9	.7	.2	80	20
Coal and other nonmetallic minerals.....	1.6	1.3	.3	83	17
Petroleum	114.1	52.1	62.0	46	54
Oil and gas extraction.....	4.4	3.5	.8	81	19
Petroleum and coal products.....	101.1	43.2	57.9	43	57
Petroleum wholesale trade.....	5.1	2.2	2.9	43	57
Other.....	3.4	3.1	.3	90	10
Manufacturing	382.3	301.3	81.0	79	21
Food and kindred products.....	27.9	21.8	6.1	78	22
Chemicals and allied products.....	51.5	39.1	12.4	76	24
Primary and fabricated metals.....	40.2	35.4	4.8	88	12
Primary metals.....	27.3	24.8	2.5	91	9
Fabricated.....	12.9	10.6	2.3	82	18
Machinery, except electrical.....	60.4	42.4	18.0	70	30
Office and computing machines.....	30.3	17.6	12.6	58	42
Construction and related machinery.....	10.5	8.4	2.1	80	20
Other.....	16.2	13.5	2.7	83	17
Electric and electronic equipment.....	32.1	26.7	5.4	83	17
Transportation equipment.....	88.5	71.3	17.2	79	21
Other manufacturing.....	81.6	64.6	17.0	79	21
Trade	35.3	31.3	4.0	89	11
Wholesale.....	6.5	5.1	1.5	77	23
Retail.....	28.7	26.3	2.5	91	9
Finance (except banking), insurance, and real estate	29.2	22.8	6.4	78	22
Other Industries	88.4	81.1	7.3	92	8
Transportation.....	18.6	17.3	1.3	92	8
Services.....	11.7	10.0	1.7	85	15

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, February 1983.

No. 912. CAPITAL EXPENDITURES BY MAJORITY-OWNED FOREIGN AFFILIATES OF U.S. MULTINATIONAL COMPANIES: 1970 TO 1983

[Represents expenditures to acquire, add to, or improve property, plant, and equipment. Data are universe estimates based on Bureau of Economic Analysis' semiannual sample survey. The latest survey, taken in Dec. 1983, covered over 8,500 majority-owned foreign affiliates. See *Survey of Current Business*, March 1984.]

INDUSTRY AND AREA OR COUNTRY	EXPENDITURES (bil. dol.)							PERCENT OF TOTAL			
	1970	1975	1979	1980	1981	1982	1983, prel.	1970	1975	1980	1983, prel.
Total	14.1	26.8	32.6	42.4	43.7	43.8	37.7	100.0	100.0	100.0	100.0
Mining and smelting.....	1.2	1.2	.7	1.3	1.3	.7	.4	8.5	4.5	3.1	1.1
Petroleum.....	4.0	9.9	11.0	14.8	15.8	19.7	17.5	28.4	33.2	34.9	46.4
Manufacturing	6.5	11.3	15.4	19.5	19.2	16.8	13.8	46.1	42.2	46.0	36.6
Food products.....	4	.7	1.2	1.5	1.4	1.3	1.3	2.8	2.6	3.5	3.4
Chemicals and allied products.....	1.2	2.5	2.6	3.0	3.0	2.8	2.5	8.5	9.3	7.1	6.6
Machinery (except electrical).....	1.6	2.8	4.7	5.6	5.1	4.9	3.4	11.3	10.4	13.2	9.0
Electrical machinery.....	.6	.9	1.1	1.4	1.2	1.1	1.1	4.3	3.4	3.3	2.9
Transportation equipment.....	1.0	1.4	2.9	4.4	5.2	3.4	2.7	7.1	5.2	10.4	7.2
Trade.....	1.0	2.4	3.1	3.8	4.3	3.8	3.4	7.1	9.0	9.0	9.0
By area of affiliate:											
Developed countries.....	10.1	18.8	24.8	31.9	31.3	30.0	26.3	71.6	70.1	75.2	69.8
Canada.....	3.0	5.0	8.5	8.3	8.1	7.4	7.1	21.3	18.7	19.6	18.8
Europe.....	5.7	11.7	16.4	20.8	20.1	19.5	16.9	40.4	43.7	49.1	44.8
European Communities ²	5.1	9.9	14.0	17.8	16.2	15.4	14.1	36.2	36.9	42.0	37.4
Other Europe.....	.6	1.8	2.4	3.0	3.9	4.0	2.8	4.3	6.7	7.1	7.4
Japan.....	.5	.8	.6	.9	.8	.9	.7	3.5	3.0	2.1	1.9
Australia, New Zealand, South Africa.....	.9	1.2	1.3	1.8	2.2	2.2	1.6	6.4	4.5	4.2	4.2
Developing countries.....	3.3	6.4	6.6	9.0	11.1	12.5	10.8	23.4	23.9	21.2	28.6
Latin America.....	2.0	3.1	3.2	4.6	5.7	5.2	3.6	14.2	11.6	10.8	9.5
Africa (excl. South Africa).....	.5	.7	.9	1.3	1.6	2.5	2.2	3.5	2.6	3.1	5.8
Middle East.....	.2	1.3	.9	.7	.5	.7	.8	1.4	4.9	1.7	2.1
Other Asia and Pacific.....	.6	1.3	1.7	2.5	3.3	4.1	4.3	4.3	4.9	5.9	11.4
International and unallocated.....	.7	1.7	1.2	1.5	1.4	1.3	.6	5.0	6.3	3.5	1.6

¹ Includes other industries not shown separately. ² Includes Belgium, Denmark, France, Federal Republic of Germany, Ireland, Italy, Luxembourg, the Netherlands, and the United Kingdom.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March issues.

No. 913. FOREIGN-OWNED U.S. FIRMS, BY PERCENT OF FOREIGN OWNERSHIP, INDUSTRY, AND COUNTRY: 1982

[Covers only firms operating at more than one U.S. location and having 50 or more employees. A firm was defined as foreign-owned if 10 percent or more of its equity was owned by a foreign entity. Domicile country refers to location of the home office of the owning entity]

ITEM	Firms ¹	Estab-lish-ments ¹	Em-ploy-ment ² (1,000)	Annual payroll (mil. dol.)	DOMICILE COUNTRY	Firms ¹	Estab-lish-ments ¹	Em-ploy-ment ² (1,000)	Annual payroll (mil. dol.)
Total ³	1,744	48,287	2,377.4	47,876	All countries ⁴	1,744	48,287	2,377.4	47,876
Foreign ownership:					Australia ⁴	29	466	27.5	600
10-49 percent.....	246	10,004	587.6	13,002	Bahamas.....	13	238	9.6	122
50-99 percent.....	308	9,304	419.5	8,490	Belgium ⁵	39	782	48.9	992
100 percent.....	1,159	28,759	1372.8	26,014	Bermuda.....	15	1,109	40.3	740
Industry:					Canada.....	271	8,186	411.3	9,295
Agriculture.....	58	240	8.5	142	France.....	122	3,158	168.7	3,499
Mining.....	102	881	106.1	3,277	Germany, Fed.				
Construction.....	87	454	48.4	1,347	Rep. of.....	173	5,493	314.0	5,758
Manufacturing.....	864	5,884	1,109.3	24,496	Great Britain.....	293	11,225	505.7	6,748
Transportation, communication, public utilities.....	221	2,358	83.9	2,072	Hong Kong.....	20	1,188	20.8	328
Wholesale trade.....	947	9,536	219.7	5,525	Japan.....	239	2,249	117.8	2,589
Retail trade.....	230	18,440	444.0	4,431	Netherlands.....	132	7,902	354.4	7,783
Finance, insurance, real estate.....	375	5,434	183.6	4,183	Neth. Antilles.....	37	1,335	73.9	1,552
Services.....	378	5,060	173.8	2,404	Panama.....	18	168	13.8	290
					Sweden.....	50	605	41.3	836
					Switzerland.....	131	2,594	143.7	2,792
					Other.....	162	3,158	85.7	1,952

¹ For definition, see text, p. 513.

² For week including March 12.

³ Includes industries and countries not shown separately.

⁴ Includes New Zealand.

⁵ Includes Luxembourg.

Source: U.S. Bureau of the Census, *Selected Characteristics of Foreign-Owned U.S. Firms: 1982*.

No. 914. CONSUMER COOPERATIVES AND FARMER COOPERATIVES SELLING CONSUMER GOODS, BY TYPE OF ASSOCIATION: 1970 TO 1982

[Members in thousands; business in millions of dollars. Business refers to loans outstanding]

TYPE OF ASSOCIATION	1970			1981			1982		
	Associa-tions	Mem-bers	Busi-ness	Associa-tions	Mem-bers	Busi-ness	Asso-ciations	Mem-bers	Busi-ness
Credit unions ¹	23,656	22,819	14,106	20,897	45,069	50,394	19,890	46,498	51,646
Electric power cooperatives ²	875	5,789	1,195	869	9,028	7,440	870	9,247	8,631
Rural telephone cooperatives ³	235	609	86	254	982	391	254	977	457
Independent prepaid and self-insured health plans ⁴	⁵ 482	⁶ 12,204	1,068	(NA)	⁸ 29,107	⁹ 9,353	(NA)	(NA)	(NA)
Community consumer.....	⁵ 40	⁶ 4,691	445	(NA)	⁸ 7,962	⁹ 2,519	(NA)	(NA)	(NA)
Labor and management.....	⁵ 418	⁶ 5,834	545	(NA)	⁸ 18,457	⁹ 5,810	(NA)	(NA)	(NA)
Health professionals (both profit making and non-profit plans)	⁵ 24	⁶ 1,679	78	(NA)	⁸ 2,688	⁹ 1,024	(NA)	(NA)	(NA)
Farmer cooperatives selling producer and consumer goods ⁷	6,209	(NA)	3,871	5,009	(NA)	17,059	4,952	(NA)	16,362
Petroleum products ⁸	2,774	(NA)	862	2,911	(NA)	5,648	2,871	(NA)	5,502
Meats and groceries.....	717	(NA)	83	482	(NA)	163	462	(NA)	112
Miscellaneous ⁹	4,800+	(NA)	527	4,300+	(NA)	1,729	4,200+	(NA)	1,699

NA Not available. ¹ Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration and State Chartered Credit Unions*. ² Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Electric Borrowers*. Electric distribution cooperatives currently borrowing from REA, average number of consumers served, and total revenues. ³ Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*. Cooperatives currently borrowing from REA, number of subscribers at end of year, annual revenues.

⁴ Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, September 1982, and unpublished data. Estimated enrollees and annual subscription income of plans. Enrollment is for most frequent type of benefit (surgical services).

⁵ 1981, preliminary. ⁶ 1988 data. ⁷ 1979 data. ⁸ Data for fiscal years ending June 30 or earlier in years shown, 1982, calendar year. Since most cooperatives do more than one type of business, totals are less than would be obtained by adding number of cooperatives handling individual items or performing individual services. Major products sold are feed, seed, fertilizer, pesticides, and petroleum. See table 1147 for other items sold by farmer cooperatives. ⁹ Sales include products for farming, for both farm and non-farm home heating, and automobile and truck uses. ¹⁰ Includes hardware, building supplies, lawn and garden items, electrical goods, and other supplies used by both farmers and nonfarmers.

Source: Except as noted, U.S. Dept. of Agriculture, Agricultural Cooperative Service, unpublished data.

No. 915. CORPORATE PHILANTHROPY AS A PERCENT OF PRETAX NET INCOME: 1980 TO 1982

(Based on sample of 2,500 large industrial and non-industrial companies)

INDUSTRY CLASS	1980	1981	1982	INDUSTRY CLASS	1980	1981	1982
All firms, average.....	.54	.63	.63	Manufacturing firms, average—Con.			
Manufacturing firms, average.....	.52	.63	.90	Stone, clay and glass products.....	.95	1.35	2.63
Chemicals.....	.62	.73	.92	Textiles.....	1.29	.99	1.62
Electrical machinery and equipment.....	.58	.64	.80	Transportation equipment.....	.79	.86	2.11
Fabricated metal products.....	.90	1.23	1.06	Nonmanufacturing firms, average.....	.80	.83	.89
Food, beverage and tobacco.....	.64	.71	1.00	Banking.....	.82	.37	1.12
Machinery, nonelectrical.....	.80	.86	2.40	Business services.....	.82	.61	.79
Mining.....	.55	.79	1.90	Engineering and construction.....	.47	.71	.39
Paper and like products.....	1.09	1.08	1.80	Finance.....	.67	.66	.75
Petroleum and gas.....	.29	.42	.61	Insurance.....	.74	.96	1.31
Pharmaceuticals.....	.99	.82	.98	Merchandising.....	1.67	1.50	1.30
Primary metal industries.....	.95	.88	1.63	Telecommunications.....	.41	.45	.53
Printing and publishing.....	1.65	.92	1.26	Transportation.....	.64	.62	1.00
Rubber, misc. plastic products.....	1.42	.49	1.12	Utilities.....	.29	.28	.27

No. 916. CORPORATE PHILANTHROPY—BENEFICIARIES: 1975 TO 1982

(In millions of dollars, except percent)

BENEFICIARY	1975	1976	1977	1978	1979	1980	1981	1982	
								Total	Percent of total
Total.....	436.8	516.2	593.9	663.2	835.6	994.6	1,170.6	1,281.6	100.0
Health and human services ¹	180.0	203.1	227.6	225.9	292.6	337.9	393.3	397.3	31.0
Federal drives.....	104.6	116.2	128.5	142.1	(NA)	170.7	(NA)	182.4	14.2
Other local health, human services.....	20.5	20.4	25.0	28.3	(NA)	41.7	(NA)	44.6	3.5
Hospitals.....									
Capital grants.....	17.9	21.0	23.6	24.5	(NA)	29.8	(NA)	27.0	2.1
Operating grants.....	4.7	4.8	5.4	6.1	(NA)	11.1	(NA)	10.7	.8
Education ¹	158.4	192.5	220.0	256.3	314.8	375.6	428.8	522.2	40.9
Higher education institutions:									
Dept. and research grants.....	23.8	29.0	31.6	41.8	(NA)	64.7	(NA)	114.6	8.9
Employee matching gifts.....	14.0	17.0	22.4	25.2	(NA)	45.4	(NA)	71.2	5.6
Unrestricted operating grants.....	29.1	32.1	34.8	43.8	(NA)	56.0	(NA)	57.4	4.5
Culture and art ¹	33.0	42.2	53.2	70.0	82.5	108.7	139.6	145.8	11.4
Museums.....	7.6	10.0	11.8	17.2	(NA)	23.3	(NA)	31.7	2.5
Music.....	5.1	5.9	7.4	10.1	(NA)	14.7	(NA)	19.5	1.5
Public TV and radio.....	5.9	6.4	9.5	11.3	(NA)	16.3	(NA)	18.3	1.4
Civic, community activities ¹	45.2	57.0	68.3	79.0	97.3	116.8	136.6	149.3	11.6
Community improvement.....	15.2	21.9	26.3	28.8	(NA)	47.0	(NA)	46.2	3.8
Environment; ecology.....	7.5	7.9	15.1	11.2	(NA)	10.8	(NA)	13.8	1.1
Housing, urban renewal.....	3.0	2.9	2.7	5.8	(NA)	7.7	(NA)	12.8	1.0
Other and unknown.....	20.3	21.5	24.8	32.0	48.3	55.5	71.3	67.0	5.2

NA Not available. ¹Includes other beneficiaries not shown separately.Source of tables 915 and 916: Troy, Kathryn, *Annual Survey of Corporate Contributions*, The Conference Board, New York, NY. (Copyright.)

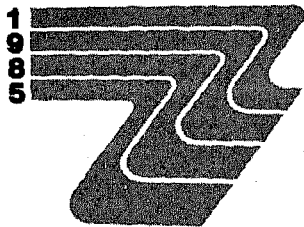
No. 917. PATENTS AND TRADEMARKS: 1961 TO 1983

(In thousands. Calendar year data. Covers patents issued to citizens of the United States and residents of foreign countries. For information on copyrights, see table 941. See also *Historical Statistics, Colonial Times to 1970*, series W 96-108)

ITEM	1961-1965	1966-1970	1971-1975	1976-1980	1976	1977	1978	1979	1980	1981	1982	1983
Patent applications filed.....	463.2	504.6	541.4	550.1	110.0	109.0	109.3	108.9	113.0	114.5	118.4	112.4
Inventions.....	436.1	476.2	510.4	509.0	102.3	100.9	100.9	100.5	104.3	106.4	109.6	103.7
Designs.....	25.3	28.3	28.6	37.2	7.1	7.3	7.5	7.5	7.8	7.4	8.2	8.1
Botanical plants.....	.6	.6	.7	1.0	.2	.2	.2	.2	.2	.2	.2	.3
Reissues.....	1.2	1.5	1.7	2.9	.4	.5	.7	.6	.6	.5	.4	.3
Patents issued.....	275.4	342.9	396.7	334.3	75.4	69.8	70.5	52.4	66.2	71.0	63.3	62.0
Inventions.....	260.0	325.1	375.5	312.3	70.2	65.3	68.1	48.9	61.8	65.8	57.9	56.8
Individuals.....	69.9	73.4	87.0	65.0	14.1	14.0	14.3	9.3	13.3	14.1	11.9	10.5
Corporations: U.S.....	152.5	190.6	192.9	150.4	34.4	31.5	31.3	23.8	29.4	29.5	25.8	25.7
Foreign ¹	31.0	52.8	86.0	90.4	19.9	18.2	19.3	14.8	18.2	21.0	19.2	18.6
U.S. Government.....	6.5	8.4	9.6	6.5	1.8	1.5	1.2	.9	1.0	1.1	1.0	1.0
Designs.....	13.9	16.3	18.7	19.4	4.6	3.9	3.9	3.1	3.9	4.7	4.9	4.8
Botanical plants.....	.6	.4	.8	.8	.2	.2	.2	.1	.1	.2	.2	.2
Reissues.....	1.0	1.1	1.6	1.8	.4	.4	.4	.3	.3	.4	.3	.4
Published applications ²	—	.6	.8	.5	.1	.1	.1	(2)	.1	(2)	(2)	(2)
Foreign country residents ³	48.3	76.0	119.3	118.0	26.1	23.9	25.1	18.2	24.7	26.5	24.0	25.4
Certificates of trademarks												
Issued.....	106.6	128.5	158.3	150.7	33.1	31.9	35.1	25.9	24.7	48.8	48.4	52.2
Trademarks.....	91.9	104.2	129.4	121.2	26.3	25.9	29.6	20.5	18.9	42.7	42.4	46.7
Trademark renewals.....	14.7	24.3	28.9	29.5	6.8	6.1	5.5	5.4	5.9	5.9	6.0	5.5

— Represents zero. Z Less than 50.

¹Includes patents to foreign governments. ²Abstracts of technical disclosure of patent published at request of applicant or owner. The current practice, called "Defensive Publications," began in Nov. 1968.³Includes patent inventions and a small number of patents for designs and botanical plants.Source: U.S. Patent and Trademark Office. Fiscal-year figures are published in the *Commissioner of Patents and Trademarks Annual Report*.



This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: Telephone, telegraph, radio, television, newspapers and periodicals. Expenditures data for advertising in the media are also included.

Postal Service.—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch; it also placed restrictions on the private delivery of mail.

"Revenue and cost analysis" is the term used by the Postal Service to describe its system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs" which includes funds for research and development, portions of personnel and office supplies, etc. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Revenue and Cost Analysis*, and its *Annual Report of the Postmaster General*.

Communication media.—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers that are engaged in intrastate service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover about 90 percent of the revenues of all U.S. telephone companies.

Reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. Statistics covering the private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services primarily provide two-way radio communication for emergency and business purposes in the aviation, marine, land transportation, and other industries; police, fire, and other public safety programs; and amateur and personal operations. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, and its annual *Statistics of Communications Common Carriers*.

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every five years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. Editor & Publisher Co., Inc., New York, presents annual data on the number and circulation of daily and Sunday newspapers in its *International Yearbook*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York. (See table 379 for annual data).

Advertising.—The statistics on advertising expenditures are compiled primarily by private organizations. McCann-Erickson, Inc., which compiles certain of the data shown (see tables 942-944), defines national advertising as the advertising done for companies whose products are distributed nationally, and for which national media rates are paid. Local advertising is defined as the advertising done for companies which market their products locally and which may pay special "local" media rates. Spot advertising is considered time bought by a national advertiser on a selective market basis. Monthly index figures of advertising in certain media are also published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports (see tables 946-948) distinguished between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on behalf of retail or service establishments in the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given es-

tabishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

No. 918. U.S. POSTAL SERVICE—SUMMARY: 1900 TO 1983

(For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 537. See also *Historical Statistics, Colonial Times to 1970*, series R 163-171)

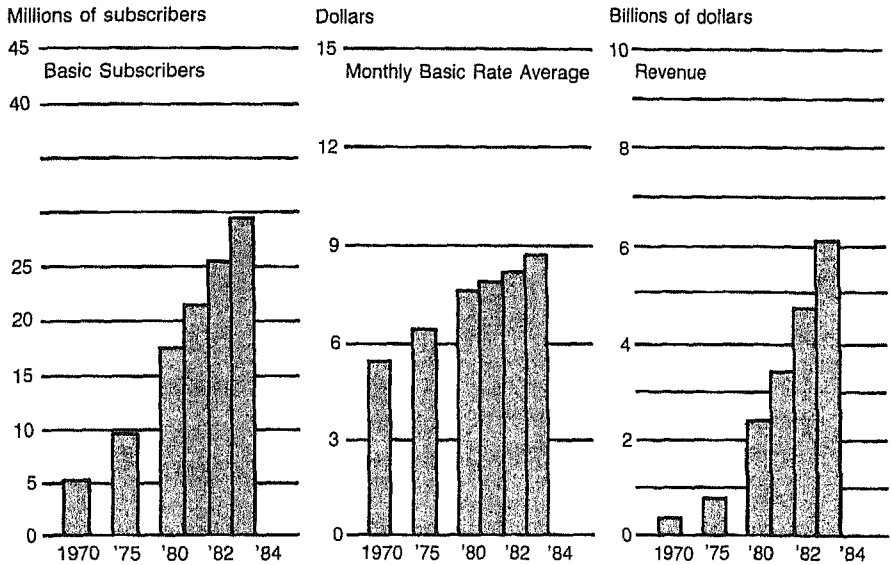
YEAR	Number of post offices	FINANCES ¹			Revenue per capita ³ (dol.)	Sales of stamps and stamped paper (mil. dol.)	Postage paid under permit and meter (mil. dol.)	Money orders issued, total (mil. dol.)	PIECES OF MAIL HANDLED (est.)			
		Revenues (mil. dol.)	Expenditures ² (mil. dol.)	Deficit (mil. dol.)					Total ⁴ (bil.)	First-class ⁵		Second-class ⁶ (bil.)
										Number (bil.)	Per cent	
1900.....	76,688	102	108	5	1.34	94	(⁷)	256	7.1	(NA)	(NA)	(NA)
1910.....	59,580	224	230	6	2.43	202	4	638	14.9	(NA)	(NA)	(NA)
1920.....	52,641	437	454	17	4.11	380	13	1,356	(NA)	(NA)	(NA)	(NA)
1930.....	49,063	705	804	98	5.75	575	74	1,767	27.9	16.9	60.6	5.0
1940.....	44,024	767	808	41	5.84	522	177	2,108	27.7	15.2	54.9	4.8
1950.....	41,464	1,677	2,223	545	11.14	862	678	⁸ 5,138	45.1	24.5	54.3	6.3
1955.....	38,916	2,349	2,712	363	14.33	999	1,136	5,683	55.2	28.7	52.0	6.7
1960.....	35,238	3,277	3,874	597	18.27	1,245	1,699	5,058	63.7	33.2	52.1	7.5
1965.....	33,624	4,483	5,276	793	23.17	1,528	2,529	4,540	71.9	38.1	53.0	8.6
1970.....	32,002	7,702	7,867	165	31.05	1,936	3,883	4,709	84.9	48.6	57.2	9.4
1971.....	31,947	8,751	8,955	204	32.24	1,999	4,126	4,728	87.0	50.0	57.5	9.6
1972.....	31,686	9,347	9,522	175	37.89	2,371	4,861	4,731	87.2	48.9	58.1	9.5
1973.....	31,385	9,913	9,926	13	39.77	2,399	5,141	4,700	89.7	51.0	56.9	9.0
1974.....	31,000	10,857	11,295	438	42.65	2,504	5,623	5,194	90.1	51.6	57.3	8.8
1975.....	30,754	11,590	12,578	988	47.08	2,819	6,241	5,856	89.3	51.4	57.6	9.1
1976.....	30,521	12,747	13,923	1,176	52.21	3,155	6,883	6,243	89.8	52.1	58.0	8.9
1976, TQ ⁹	30,521	3,402	3,387	¹⁰ 15	14.11	815	1,895	1,639	21.5	12.5	58.1	2.1
1977.....	30,521	14,622	15,310	688	60.18	3,658	7,951	5,636	92.2	63.7	58.2	8.7
1978.....	30,518	15,841	16,220	379	64.91	3,943	8,668	5,587	98.9	56.0	57.8	8.7
1979.....	30,449	17,999	17,529	¹⁰ 470	73.37	4,382	10,062	5,631	99.8	58.0	58.1	8.4
1980.....	30,326	19,106	19,412	306	77.32	4,287	10,828	6,112	106.3	60.3	56.7	8.4
1981.....	30,242	20,781	21,369	588	83.62	4,625	11,891	6,692	110.1	61.5	55.8	10.0
1982.....	30,155	23,628	22,826	¹⁰ 802	97.83	5,559	13,984	6,920	114.0	62.3	54.5	9.5
1983.....	29,990	24,699	24,083	¹⁰ 616	101.08	5,709	14,755	7,355	119.4	64.3	53.8	9.2

NA Not available. ¹ After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Through 1950, includes some payments and receipts applicable to services in prior years; beginning 1955, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. In 1954, the Postal Service began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues for 1960 include \$37.4 million reimbursement from the Treasury General Fund for statutory public services. These and other changes affect comparability of figures. See also footnote 3, table 919. ² Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Postal Service by other agencies. Beginning 1955, represents obligations incurred; beginning 1965, represents accrued expenses, including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Postal Service. ³ Operating revenue only, based on Bureau of the Census estimated total population as of Jan. 1, including Armed Forces abroad. ⁴ Includes other classes of mail not shown separately. See table 921. ⁵ Items mailed at 1st-class rates and weighing 12 ounces or less. Beginning 1977, includes air mail which was discontinued as a separate class of mail. Includes items wholly or partially in writing or typewriting, cards or bills and statements of account, items closed against postal inspection, etc. ⁶ Includes mail paid at other than bulk rates. ⁷ Service not inaugurated. ⁸ Includes postal notes issued under act of Congress. ⁹ Transition quarter, July-Sept. ¹⁰ Net income.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

Figure 19.1

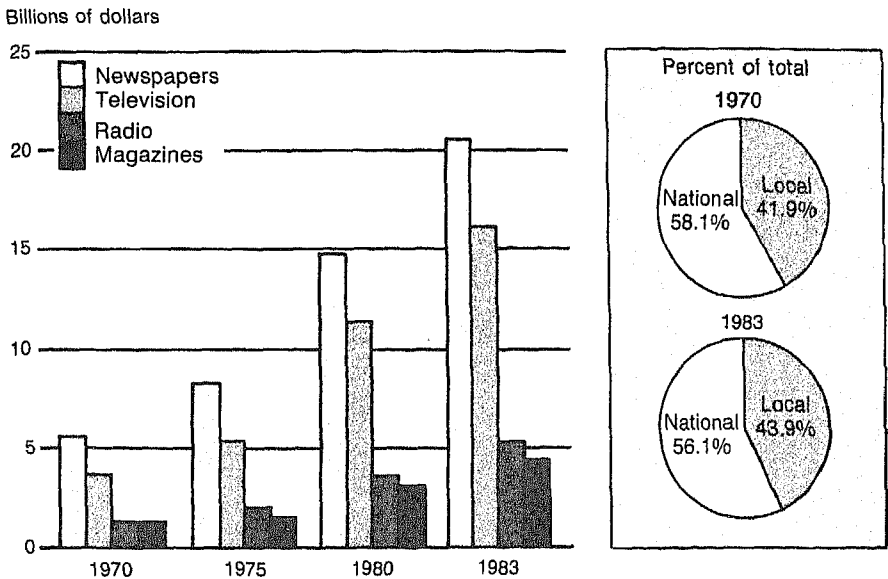
Cable TV — Average Subscribers, Average Monthly Rate and Revenue: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 933.

Figure 19.2

Advertising Expenditures by Selected Media: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 944.

No. 919. U.S. POSTAL SERVICE REVENUES: 1960 TO 1983

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 537]

ITEM	1960	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total revenue ¹	3,277	7,702	11,590	12,747	14,622	15,841	17,999	19,106	20,781	23,628	24,699
SOURCE											
Operating postal revenue ²	3,270	6,347	10,015	11,199	12,998	14,133	16,106	17,143	18,133	22,600	23,582
Stamps, postal cards, etc.	1,245	1,936	2,819	3,155	3,658	3,943	4,382	4,287	4,625	5,559	5,709
Second-class postage paid in money (pound rates) ⁴	86	192	284	319	427	551	755	881	911	996	991
Other postage paid under permit and meter	1,689	3,883	6,241	6,883	7,951	8,668	10,062	10,828	11,891	13,984	14,755
Box rents	29	44	67	103	109	124	153	160	168	168	202
Miscellaneous	147	236	556	675	748	758	863	892	1,427	1,771	1,801
Money-order revenues	64	56	53	63	105	69	91	95	111	122	124
Government appropriations	-	1,355	1,533	1,645	1,712	1,722	1,720	1,610	1,275	707	789
Percent of total revenue	-	17.6	13.2	12.9	11.7	10.9	9.6	8.4	6.1	3.0	3.2
Investment income, net	-	-	37	6-97	6-88	6-14	173	353	373	321	328
MAIL AND SERVICE											
First-class mail ⁷	1,510	3,291	5,798	6,734	7,831	8,575	9,733	10,148	11,457	13,747	14,255
Priority mail ⁸	-	282	411	411	468	497	561	612	756	823	849
Second-class publishers' mail ⁹	81	155	236	267	363	472	644	618	10,885	10,961	10,958
Controlled circulation publication ¹¹	8	35	41	41	53	67	95	246	(10)	(10)	(10)
Third-class mail ¹²	441	827	1,348	1,522	1,748	1,987	2,216	2,412	2,643	3,303	3,677
Bulk rate	(NA)	(NA)	1,187	1,317	1,508	1,745	1,987	2,168	2,405	3,092	3,482
Single piece rate and fees	(NA)	(NA)	181	205	240	242	249	244	238	211	195
Fourth-class mail ¹³	507	778	718	680	769	673	747	805	786	788	753
Zone rate mail (parcels, catalogs, etc.)	(NA)	(NA)	577	508	594	460	484	500	499	507	500
Special fourth-class rate	(NA)	(NA)	130	160	148	187	237	272	251	237	206
Library rate and fees	(NA)	(NA)	11	12	28	27	27	33	36	44	47
Government mail ¹⁴	86	199	484	577	611	626	678	745	781	918	913
International mail ¹⁵	102	270	390	447	493	499	550	596	735	882	874
Special services	184	236	251	257	417	439	506	518	823	823	886
Other ¹⁶	258	1,629	1,913	1,811	1,869	2,005	2,269	2,404	1,933	1,933	1,554

- Represents zero. NA Not available. ¹ Net revenue after refunds of postage. Beginning 1970, includes operating reimbursements. ² Includes small amounts for Postal Savings System. ³ The U.S. Postal Service was established July 1, 1971. Revenues prior to that date are those of the Post Office Department. Revenues for 1970 have been restated to be consistent with subsequent years. See also footnote 1, table 918.

⁴ Includes controlled circulation publications. ⁵ Includes \$37.4 million appropriated to postal revenues for public services as provided by the Postal Policy Act of 1958. ⁶ Interest expense on loans exceeded interest income received from investments.

⁷ See footnote 5, table 918. ⁸ Items otherwise qualified as 1st-class or airmail that exceed 12 ounces and 8 ounces, respectively. ⁹ Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers. These include regular rate newspapers and magazines, and classroom and nonprofit rate publications. Outside-the-county publications are those mailed to destinations outside the county of publication.

¹⁰ Controlled circulation discontinued March 22, 1982. Beginning 1981, statistics are included in second-class. ¹¹ Discontinued in 1981. Publications of at least 24 pages and containing at least 25 percent nonadvertising content issued quarterly or more frequently for mainly free distribution. Includes certain trade publications and "shopper" guides. ¹² Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. ¹³ Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. ¹⁴ Penalty and franked mail. ¹⁵ Mail from U.S. to foreign countries paid at international mail rates. ¹⁶ Consists of unassignable revenues; includes domestic airmail until 1976, and express mail and mailgrams beginning 1977.

No. 920. U.S. POSTAL SERVICE EMPLOYEES, BY TYPE: 1960 TO 1983

[In thousands, except as indicated. As of June 30 except, beginning 1977, as of Sept. 30. Includes Puerto Rico, and all outlying areas except Canal Zone. See *Historical Statistics, Colonial Times to 1970*, series R 187, for total employees]

ITEM	1960	1970	1975	1977	1978	1979	1980	1981	1982	1983
Total employees	563	741	702	655	656	663	667	670	675	679
Regular	409	549	559	528	526	534	536	544	547	547
Postmasters	35	30	30	29	28	28	29	29	29	28
Office supervisors and tech. personnel	27	37	37	36	37	36	36	37	38	39
Office clerks and mail handlers ¹	17	243	239	228	226	230	229	232	232	229
City carriers and vehicle drivers	110	165	167	157	156	160	160	164	165	166
Rural carriers	31	31	31	31	31	32	33	33	34	34
Other	34	42	55	47	47	48	49	49	49	51
Substitute (part-time)	154	193	143	127	130	129	130	126	126	132
Compensation and employee benefits (mil. dol.)	2,953	6,462	10,805	13,124	14,031	15,162	16,541	18,018	19,094	20,070
Avg. salary per employee, (dol.) ²	5,245	8,721	15,392	20,037	21,389	22,869	24,799	26,893	28,283	29,565
Pieces of mail per employee, average	113	115	127	141	148	151	159	164	169	178

¹ Includes mobile unit employees. ² Includes fringe benefits.

Source of tables 919 and 920: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 921. U.S. POSTAL SERVICE—VOLUME OF MAIL, BY CLASS: 1970 TO 1983

[In millions, except per capita. For years ending June 30 except, beginning 1980, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. For definition of classes of mail, see footnotes, table 918. See also *Historical Statistics, Colonial Times to 1970*, series R 172-186]

CLASS OF MAIL	PIECES OF MAIL					WEIGHT OF MAIL (lb.)				
	1970	1975	1980	1982	1983	1970	1975	1980	1982	1983
Total.....	84,882	89,266	106,311	114,049	119,381	13,281	12,025	12,958	13,944	14,644
Domestic.....	83,986	88,334	105,348	113,122	118,477	13,055	11,824	12,742	13,713	14,414
1st class and airmail ¹	50,174	52,482	60,332	62,271	64,320	1,636	1,746	2,213	2,345	2,451
Priority mail.....	185	207	248	259	271	371	440	591	582	589
2d class.....	9,352	9,085	8,446	8,527	9,220	3,417	2,792	2,550	2,482	2,526
3d class.....	19,974	21,867	30,381	36,719	40,735	2,032	2,283	3,240	4,296	5,062
4th class.....	977	801	633	597	568	4,786	3,754	2,661	2,446	2,248
Controlled circulation publications.....	582	628	1,775	(²)	(²)	224	232	928	(²)	(²)
Penalty.....	2,544	2,928	2,992	2,946	2,775	540	527	503	513	487
Franked and free for blind.....	218	336	540	803	588	49	50	58	49	52
International.....	896	932	963	927	904	226	201	216	231	230
Per capita: ³										
Total, all domestic mail ⁴	412	415	475	490	508	64	56	57	59	62
1st class and airmail.....	246	247	272	270	276	8	8	10	10	11
2d class.....	48	43	38	41	40	17	13	12	15	15
3d class.....	98	103	137	159	175	10	11	15	19	22
4th class.....	5	4	3	3	2	23	18	12	11	10

¹ Beginning 1980, includes express mail established as a class of mail on October 9, 1977, and mailgrams. ² Controlled circulation discontinued March 22, 1981. Beginning 1981 statistics are included in second-class. ³ Based on estimated total population as of Jan. 1, including Armed Forces abroad. ⁴ Includes types of mail not shown separately.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 922. U.S. POSTAL SERVICE RATES FOR LETTERS AND POST CARDS: 1958 TO 1981

[See also *Historical Statistics, Colonial Times to 1970*, series R 188-191]

DATE OF RATE CHANGE	SURFACE MAIL				Domestic air-mail letters ¹	DATE OF RATE CHANGE	SURFACE MAIL				Domestic air-mail letters ¹
	Letters			Postal and post cards			Letters			Postal and post cards	
	Each ounce	First ounce	Each added ounce				Each ounce	First ounce	Each added ounce		
1958 (Aug. 1).....	4¢	(X)	(X)	3¢	7¢	1975 (Sept. 14).....	(X)	10¢	9¢	7¢	(X)
1963 (Jan. 7).....	5¢	(X)	(X)	4¢	8¢	1975 (Dec. 31).....	² (X)	² 13¢	² 11¢	² 9¢	(²)
1968 (Jan. 7).....	6¢	(X)	(X)	5¢	10¢	1978 (May 29).....	(X)	15¢	13¢	10¢	(²)
1971 (May 18).....	8¢	(X)	(X)	6¢	11¢	1981 (Mar. 22).....	(X)	18¢	17¢	12¢	(²)
1974 (Mar. 2).....	10¢	(X)	(X)	8¢	13¢	1981 (Nov. 1).....	(X)	20¢	17¢	13¢	(²)

X Not applicable. ¹ Each ounce, except as noted. ² As of October 11, 1975, surface mail service upgraded to level of airmail. ³ 17¢ for first ounce; 15¢ for each added ounce. ⁴ As of May 1, 1977, domestic airmail service, as a separate class of mail, was discontinued.

Source: U.S. Postal Service, "United States Domestic Postage Rates: Recent History," and unpublished data.

No. 923. INTERNATIONAL AIR MAIL RATES FROM THE U.S.: 1961 TO 1981

[Excludes Canada and Mexico]

DATE OF RATE CHANGE	ZONE 1 ¹		ZONE 2 ²		ZONE 3 ³		Post cards	Aerogrammes
	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce		
July 1, 1961.....	.13	.13	.15	.15	.25	.25	.11	.11
May 1, 1967.....	.15	.15	.20	.20	.25	.25	.13	.13
July 1, 1971.....	.17	.17	.21	.21	.21	.21	.13	.13
Mar. 2, 1974.....	.21	.17	.26	.26	.26	.21	.18	.18
Jan. 3, 1976.....	.25	.21	.31	.28	.31	.26	.21	.22
Jan. 1, 1981.....	.35	.30	.40	.35	.40	.35	.28	.30

¹ Caribbean, Central and South America. The airmail letter rate to South America, 1961 to 1967, was the same as that to Europe. Beginning January 3, 1976, the airmail letter rate to all South American countries except Colombia and Venezuela is the same as Europe; Colombia and Venezuela are included in the first zone. ² Europe and Mediterranean Africa. ³ Rest of world.

⁴ Up to 32 oz.; 30 cents per additional ounce over 32. ⁵ Up to 32 oz.; 35 cents per additional ounce over 32.

Source: U.S. Postal Service, unpublished data.

NO. 924. UTILIZATION OF SELECTED MEDIA: 1950 TO 1984

ITEM	Unit	1950	1960	1965	1970	1975	1979	1980	1981	1982	1983	1984
Households with —												
Telephone service ¹	Percent	62	79	85	91	93	96	96	97	(NA)	(NA)	(NA)
Radio sets ²	Percent	92.6	96.3	98.6	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0
Average number of sets	Number	2.1	3.7	4.1	5.1	5.6	5.7	5.5	5.5	5.5	5.5	5.5
Television sets ³	Percent	9	67	93	95	97	98	98	98	98	98	98
Color set households	Millions	—	3	2.8	20.9	46.9	60.3	63.4	68.1	71.4	73.9	75.8
Average viewing per day ⁴	Hours	4.6	5.1	5.5	5.9	6.1	6.5	6.6	6.8	6.8	7.0	(NA)
Average number of sets ⁵	Number	1.01	1.13	1.22	1.39	1.54	1.67	1.68	1.70	1.75	1.79	1.76
Commercial radio stations: ⁶												
AM	Number	(NA)	(NA)	6,169	4,323	4,463	4,559	4,589	4,634	4,668	4,733	4,749
FM	Number	(NA)	(NA)	6,178	2,196	2,767	3,155	3,282	3,349	3,380	3,627	3,610
Television stations: ⁸ Total	Number	98	559	668	862	953	998	1,011	1,038	1,065	1,106	1,138
Commercial	Number	(NA)	515	569	677	706	724	734	756	777	813	841
Cable television: ⁹												
Systems	Number	70	640	1,325	2,490	3,506	4,150	4,225	4,375	4,825	5,600	6,200
Subscribers served	Millions	0.01	.65	1.3	4.5	9.8	14.1	15.5	18.3	21.0	25.0	30.0
Daily newspaper circulation: ¹⁰												
Number	Millions	53.8	58.9	60.4	62.1	60.7	62.2	61.4	62.5	62.6	62.6	(NA)
Per capita ¹¹	Number	.354	.327	.312	.305	.282	.277	.275	.268	.270	.268	(NA)

— Represents zero. NA Not available. ¹ As of Dec. 31, Source: American Telephone and Telegraph Company, New York, NY, unpublished data. ² As of Dec. 31, except as noted. Source: Radio Advertising Bureau, New York, NY, *Radio Facts*, annual (copyright). Number of stations on the air compiled from Federal Communications Commission reports. ³ Except as noted, 1970-1979, as of Sept. of prior year; all other years as of Jan. of year shown. Source: Except as noted, 1950-1965, National Broadcasting Company, New York, NY, *thereafter*, A.C. Nielsen Company, Northbrook, IL (copyright). ⁴ Calendar year data. Source: A.C. Nielsen Company, Northbrook, IL (copyright). ⁵ 1970 and 1975, as of Sept. all other years, as of Jan. Excludes Alaska and Hawaii. Source: Television Bureau of Advertising, Inc., New York, NY, "Trends in Television 1950 to Date", March 1984. ⁶ 1967 data. ⁷ As of June. ⁸ As of Jan. 1. Source: *Television Digest*, Inc., Washington, DC, *Television and Cable Factbook*, annual (copyright). Number of television stations on the air. ⁹ Data for 1952. ¹⁰ As of Sept. 30, except 1950-1965, as of Oct. 1. Source: Editor & Publisher, Inc., New York, NY, *Editor & Publisher International Yearbook*, annual (copyright). ¹¹ Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Compiled from sources listed in footnotes.

NO. 925. TELEPHONE AND TELEGRAPH SYSTEMS: 1950 TO 1982

[Covers principal carriers filing annual reports with Federal Communications Commission. See *Historical Statistics, Colonial Times to 1970*, series R 46-70 and R 75-88, for data on telegraph systems]

ITEM	Unit	1950	1960	1965	1970	1975	1978	1979	1980	1981	1982
Domestic telephone:¹											
Carriers	Number	71	52	54	56	62	63	61	59	60	61
Telephones ²	Million	39	66	82	105	130	148	153	157	158	151
Miles of wire	Million	147	316	436	628	872	1,022	1,081	1,131	1,188	1,223
Gross book cost of plant	Bil. dol.	10.7	25.7	38.0	59.9	95.5	123.6	134.9	147.4	161.5	174.0
Depreciation reserves ³	Bil. dol.	3.0	5.8	8.1	13.2	18.8	23.5	24.8	26.5	30.0	34.0
Ratio to book cost	Percent	27.8	21.7	21.4	22.1	19.7	19.0	18.5	18.0	18.6	19.6
Capital stock	Bil. dol.	3.2	8.4	10.0	10.8	12.4	14.8	15.5	16.3	17.5	18.6
Operating revenues ⁴	Bil. dol.	3.4	8.4	11.8	18.2	31.3	45.2	49.8	55.6	63.7	70.7
Operating expenses ⁵	Bil. dol.	2.5	5.0	7.1	11.7	20.2	29.1	33.0	37.3	42.8	49.1
Net operating income ⁶	Bil. dol.	.5	1.4	2.1	3.1	5.8	8.1	8.9	10.0	11.4	11.4
Net income	Bil. dol.	.4	1.3	1.9	2.3	3.6	5.9	6.0	6.6	7.5	7.3
Employees	1,000	565	627	655	839	840	894	928	938	945	909
Compensation of employees	Bil. dol.	1.8	3.4	4.3	7.0	11.7	16.2	18.4	20.2	22.2	24.8
Overseas telephone:											
Number of overseas calls	Million	.7	3.3	7.5	23.4	62.2	133.9	168.3	199.6	265.5	310.8
Revenue from overseas calls	Mill. dol.	9	16	101	252	562	993	1,106	1,535	1,654	1,461
Ocean cable systems	Number	1	5	11	13	14	15	15	18	17	18
Communications satellites ⁷	Number	—	—	1	4	5	5	5	5	5	6
Domestic telegraph:											
Carriers	Number	1	1	1	1	1	1	1	1	1	1
Revenue messages transmitted	Million	179	124	94	70	42	50	55	55	56	50
Message revenues ⁸	Mill. dol.	152	190	192	234	197	238	271	296	320	320
Total operating revenues	Mill. dol.	176	262	306	402	505	576	636	697	779	809
Operating revenue deductions	Mill. dol.	167	247	282	369	435	492	561	603	669	726
Operating income ⁹	Mill. dol.	9	11	24	34	70	84	75	94	110	84
Teleypewriter messages	Million	15	33	47	46	54	56	59	68	63	(NA)
Overseas telegraph:⁹											
Carriers	Number	11	9	6	6	6	6	7	7	7	7
Revenue messages transmitted	Million	23	28	29	32	26	22	21	20	18	15
Message revenues ⁸	Mill. dol.	42	71	78	124	217	320	355	380	405	411
Total operating revenues	Mill. dol.	50	87	107	194	316	455	497	535	578	613
Operating revenue deductions	Mill. dol.	45	77	87	156	245	336	362	405	468	532
Operating income ⁹	Mill. dol.	4	6	14	26	48	83	65	79	70	58
Return on investment:¹⁰											
Telephone	Percent	6.1	7.3	7.3	7.1	7.6	8.5	8.5	8.7	9.0	8.4
Domestic telegraph	Percent	5.1	5.0	5.6	5.0	6.1	6.6	5.5	6.6	7.4	5.3
Overseas telegraph	Percent	7.3	7.2	11.0	10.6	12.0	18.2	17.9	15.9	12.5	9.1

— Represents zero. ¹ Includes Puerto Rico and, beginning 1965, Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting since 1970 estimated at 90 percent of all carriers. ² Includes company, service, and private. ³ Includes amortization reserves. ⁴ Excludes taxes. ⁵ After tax deductions. ⁶ Excludes contingency and retired salaries. ⁷ Includes telex service; for domestic telegraph, excludes TWX. ⁸ After Federal income taxes. ⁹ Beginning 1965, excludes South American and most Caribbean operations of All America Cables and Radio, Inc. ¹⁰ Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

NO. 926. BELL TELEPHONE COMPANIES—SUMMARY: 1960 TO 1983

[As of Dec. 31 or for calendar year, as applicable. Comprises American Telephone and Telegraph Company and its principal telephone subsidiaries, plus Southern New England and Cincinnati Bell Telephone Companies. See also *Historical Statistics, Colonial Times to 1970*, series R 17-30]

ITEM	Unit	1960	1970	1975	1977	1978	1979	1980	1981	1982	1983
Central offices ¹	1,000.....	11.2	15.1	17.2	17.8	18.1	18.7	18.2	19.7	20.2	20.8
Miles of—											
Wire.....	Million.....	308	602	832	910	962	1,018	1,068	1,113	1,152	1,181
Coaxial tube.....	1,000.....	97	287	333	337	331	332	334	330	308	326
Telephone grade carrier channel ²	Million.....	76	414	645	715	758	854	879	1,084	1,145	(NA)
Microwave radio relay ³	1,000.....	298	1,181	1,389	1,407	1,402	1,402	1,470	1,706	1,546	(NA)
Book value of plant (cost).....	Bil. dol.....	24.7	56.2	89.2	103.8	113.0	123.9	135.5	148.5	159.7	167.8
Depreciation reserves ⁴	Bil. dol.....	5.4	12.6	17.6	19.9	21.2	22.6	24.0	27.2	30.8	35.6
Operating revenues ⁵	Bil. dol.....	8.1	17.4	29.6	37.3	42.0	46.4	51.9	59.4	65.7	69.3
Local exchange.....	Bil. dol.....	4.7	8.7	14.4	17.5	19.2	20.8	23.0	26.3	29.6	31.0
Toll.....	Bil. dol.....	3.1	8.0	14.2	18.5	21.2	23.8	26.7	30.9	33.9	35.4
Operating expenses ⁶	Bil. dol.....	5.8	12.9	22.2	27.7	31.0	34.9	39.3	45.0	51.4	47.2
Net income.....	Bil. dol.....	1.3	2.3	3.3	4.7	5.6	5.6	6.1	6.9	6.6	6.8
Dividends declared ⁷	Bil. dol.....	.8	1.5	2.2	2.9	3.3	3.8	4.0	4.5	4.9	5.8
Net income ⁸	Bil. dol.....	1.2	2.2	2.9	4.3	5.1	5.5	5.9	6.7	8.4	8.4
Average common equity.....	Bil. dol.....	12.1	23.9	29.8	35.3	38.0	42.6	46.7	52.1	57.5	55.3
Return to average common equity.....	Ratio.....	10.0	9.2	9.7	12.2	13.1	12.9	12.7	12.9	12.2	18.6
Employees, number.....	1,000.....	595	793	789	785	823	855	868	874	840	788
Wages and salaries.....	Bil. dol.....	3.3	6.6	11.1	13.4	15.1	17.3	19.3	21.5	23.2	23.4

NA Not available. ¹ 1960 not fully comparable with later years. ² Message circuits added to existing wire mileage, but not requiring additional wire. Also includes microwave radio. ³ Broadband, 1-way channel. ⁴ Includes amortization reserves. ⁵ Includes miscellaneous and uncollectible, not shown separately. ⁶ Includes operating taxes other than Federal income tax. ⁷ Excludes intercompany dividends. ⁸ Beginning 1975, applicable to ATT common (excludes preferred dividend requirement). ⁹ Before extraordinary charge due to divestiture.

Source: American Telephone and Telegraph Company, New York, NY, unpublished data compiled from reports of Bell System and Southern New England and Cincinnati Bell Companies.

NO. 927. INDEPENDENT TELEPHONE COMPANIES—SUMMARY: 1960 TO 1983

[As of Dec. 31 or calendar year, as applicable. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
All companies ¹.....	Number.....	3,299	2,421	1,841	1,618	1,527	1,488	1,483	1,459	1,432	1,429
Telephones.....	1,000.....	11,428	15,027	20,312	26,823	31,549	33,226	34,665	35,341	(NA)	(NA)
Access lines.....	1,000.....	(NA)	(NA)	(NA)	16,855	19,246	20,078	20,808	21,429	21,672	22,331
Total telephone plant.....	Mil. dol.....	4,019	6,826	12,390	21,200	27,788	31,644	35,300	38,298	41,500	44,500
Operating revenues.....	Mil. dol.....	1,020	1,670	2,953	5,500	8,085	9,240	10,475	12,206	13,860	14,875
Reporting companies ².....	Number.....	550	669	684	731	761	755	765	768	754	678
Telephones.....	1,000.....	9,718	13,648	19,182	25,548	30,323	32,511	33,748	34,583	(NA)	(NA)
Access lines.....	1,000.....	(NA)	(NA)	(NA)	(NA)	18,576	19,412	20,561	21,146	21,077	
Telephone plant in service.....	Mil. dol.....	3,396	6,056	11,175	19,520	25,840	29,379	32,491	35,986	38,847	40,463
Depreciation reserves.....	Mil. dol.....	600	1,168	2,203	4,120	6,063	6,980	7,820	8,905	10,220	11,553
Operating revenues.....	Mil. dol.....	1,040	1,530	2,791	5,294	7,807	9,073	10,177	11,860	13,445	14,309
Operating expenses ³	Mil. dol.....	630	1,040	1,953	3,639	5,405	6,415	7,279	8,449	10,699	11,432
Net income.....	Mil. dol.....	117	225	356	711	1,073	1,210	1,268	1,505	1,751	1,988
Common stock and surplus.....	Mil. dol.....	1,111	1,894	3,733	6,181	7,751	8,719	9,623	10,641	11,396	12,060
Net income to common stock and surplus.....	Percent.....	10.5	11.9	9.5	11.5	13.8	13.9	13.2	14.2	15.4	16.3
Employees.....	1,000.....	85	101	142	152	172	187	189	192	186	175
Wages and salaries.....	Mil. dol.....	359	537	1,001	1,737	2,579	3,015	3,373	3,775	4,069	4,223

NA Not available. ¹ All telephone companies independent of Bell System. ² Comprises only companies submitting operating information to source cited below. ³ Excludes Federal income tax.

Source: United States Telephone Association, Washington, DC, *Statistics of the Telephone Industry*, annual. (Copyright.)

NO. 928. REA AND RURAL TELEPHONE BANK PROGRAM—SUMMARY: 1960 TO 1983

ITEM	Unit	1960	1970	1975	1978	1979	1980	1981	1982	1983
Loans and guarantees approved, Dec. 31: ¹										
Borrowers.....	Number.....	727	862	921	966	981	990	1,010	1,029	1,037
REA amount.....	Mil. dol.....	737	1,816	2,576	3,354	3,606	3,845	4,076	4,327	4,540
Guaranteed amount.....	Mil. dol.....	-	-	237	392	392	418	553	626	672
Rural Telephone Bank amount.....	Mil. dol.....	-	-	618	1,121	1,262	1,388	1,529	1,726	1,872
Route miles of line, ² Dec. 31.....	1,000.....	287	547	653	748	772	798	805	831	860
Subscribers, Dec. 31.....	1,000.....	1,142	2,335	3,045	3,877	4,073	4,262	4,375	4,546	4,823
Telephones in service.....	1,000.....	1,280	2,989	4,355	5,925	6,335	6,770	6,953	7,147	(NA)
Total operating revenues.....	Mil. dol.....	94	363	753	1,305	1,540	1,758	2,042	2,389	2,760
Total telephone plant.....	Mil. dol.....	635	2,085	3,850	5,770	6,558	7,388	8,034	8,897	9,859
Employees.....	1,000.....	9.7	15.4	20.0	26.3	27.9	28.4	28.7	28.8	30.3

- Represents zero. NA Not available. ¹ Cumulative net loans (cancellations deducted). ² Line in service.

Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*, annual.

NO. 929. BROADCAST AND NONBROADCAST STATIONS AUTHORIZED AND OPERATORS LICENSED, BY CLASS: 1975 TO 1983

[1975 as of June 30; thereafter, as of Sept. 30, except as indicated. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1975	1980	1983	CLASS	1975	1980	1983
STATIONS AUTHORIZED (1,000)				STATIONS AUTHORIZED (number)			
Private radio services ¹.....	2,602.4	2,163.7	3,586.1	Mass media services ⁶.....	33,049	39,052	(x)
Amateur and disaster.....	276.8	389.9	414.2	Cable TV relay service ⁷	877	1,880	1,492
Personal.....	1,530.8	14,560.2	43,834.1	Commercial AM.....	4,488	4,689	4,892
Aviation.....	184.4	231.6	241.1	Commercial TV.....	759	844	1,089
Aircraft.....	154.7	196.8	204.4	Educational TV.....	256	288	306
Aeronautical and fixed.....	7.4	9.5	10.1	TV translator.....	3,989	4,636	5,615
Civil air patrol.....	19.6	21.6	22.5	Auxiliary TV.....	3,032	5,844	7,235
Other.....	2.7	3.7	4.1	Experimental TV.....	3	5	9
Industrial.....	244.6	504.9	677.0	UHF signal booster.....	9	6	6
Power.....	17.5	23.1	28.1	Aural, studio-transmitter-link.....			
Business.....	155.2	370.4	504.9	Inter-city relay.....	1,008	2,144	2,782
Petroleum.....	11.8	17.9	22.3	Commercial FM.....	2,847	3,390	3,915
Forest products.....	4.3	6.4	6.6	Educational FM.....	850	1,156	1,285
Special industrial.....	40.7	72.1	94.3	International.....	4	4	12
Other.....	15.1	14.7	20.8	Remote pickup.....	14,959	12,796	12,038
Land transportation.....	22.6	28.0	35.7	Instructional TV, fixed.....	187	223	310
Railroad.....	8.9	10.0	12.0	Other.....	381	1,147	1,647
Taxicab.....	3.7	4.8	6.2	Common carrier			
Interurban property.....	2.2	3.1	4.6	services	27,357	27,565	(x)
Other.....	7.9	9.9	12.9	Point-to-point microwave.....	8,133	9,164	10,064
Marine.....	250.7	398.3	461.1	Multipoint distribution serv.....	89	215	362
Ship.....	243.6	386.6	447.3	Local TV transmission.....	64	66	69
Alaskan.....	2.1	2.6	2.7	Rural radio.....	1,218	1,692	1,715
Coastal and other.....	5.0	9.1	11.1	Developmental radio.....	(NA)	93	135
Public safety.....	92.6	137.1	171.2	Public mobile ⁸	17,783	11,451	15,170
Police.....	28.8	42.3	47.7	International control, fixed.....	25	7	7
Fire.....	14.0	20.6	27.0	Satellite earth stations ¹⁰	48	4,873	7,013
Forestry conservation.....	6.2	7.6	8.7	Satellites in orbit ^{10 11}	17	37	43
Highway maintenance.....	7.7	9.7	11.6	Other.....	(NA)	56	175
Special emergency.....	12.4	22.4	32.1	Experimental services.....	1,349	1,513	1,413
Other.....	23.5	34.2	44.1				
Operational fixed services ⁹	(NA)	18.0	18.6	RADIO OPERATORS (1,000)	4,222	5,154	12,538
				Commercial.....	3,965	4,784	5,128
				Amateur.....	257	390	412

NA Not available. X Not applicable. ¹ Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units. ² Includes 89,096 stations for which a breakdown by class is not available. ³ Includes land mobile above 470 MHz (8,900 in 1983) not shown separately.

⁴ Reflects stations authorized as of April 30, 1983. Authorizations discontinued after that date. ⁵ Includes microwave operations. Prior to 1980, data not separable from other class categories. ⁶ Stations licensed or holding construction permits.

⁷ Licensed and operating cable systems. ⁸ 1982 data. Data no longer collected. ⁹ Beginning 1980, station count excludes individual land mobile units, which are no longer individually licensed. ¹⁰ Includes INTELSAT, INMARSAT and domestic satellite systems. ¹¹ Includes retired and contingency satellites. ¹² As of Dec. 31.

Source: U.S. Federal Communications Commission, *Annual Report*, and unpublished data.

NO. 930. PUBLIC TELEVISION STATIONS: 1961 TO 1982

[Based on a "typical" broadcast week through 1972; calendar year data for 1974 and 1976; fiscal year data thereafter. General programming is directed at the general community. Instructional programming is directed at students in the classroom or otherwise in the general context of formal education]

ITEM	1961	1966	1968	1970	1972	1974	1976	1978	1980	1982
Stations.....	56	115	¹ 153	¹ 190	220	² 238	³ 253	272	281	291
Total weekly broadcast hours ...	2,186	5,688	8,534	12,217	15,587	18,321	22,096	26,064	27,643	30,337
General programs.....	1,431	3,248	4,671	7,697	7,904	10,868	14,329	17,929	19,508	21,418
Percent of total hours.....	65.5	57.5	54.7	63.0	50.7	59.3	64.8	68.8	69.6	70.6
Instructional programs ⁴	755	2,440	3,863	4,520	7,683	7,453	7,766	8,135	8,135	8,919
Average weekly broadcast										
hours per station.....	39.0	49.5	56.1	65.3	70.9	80.7	90.9	95.8	99.8	104.3
General programming.....	25.6	28.2	30.7	41.1	36.0	47.9	59.0	65.9	69.4	73.6
Instructional programming ⁴	13.8	21.2	25.4	24.2	34.9	32.8	31.9	29.9	30.4	30.7

¹ 152 stations reported in 1968 and 187 in 1970; details include data for reporting stations only. ² Includes data for 227 stations only, representing 147 primary broadcasters; does not include secondary broadcasters. ³ Includes data for 243 stations only, representing 151 primary broadcasters. ⁴ Beginning 1974, includes material from Children's Television Workshops.

Source: Through 1970, National Instructional Television Center, Bloomington, IN, *One Week of Educational Television, 1970* (copyright); 1972, Corporation for Public Broadcasting, *One Week of Public TV*, April 1972, and unpublished data; 1974-1982, Corporation for Public Broadcasting, *PTV Programming Content by Category Report Series*, and unpublished data.

NO. 931. PUBLIC BROADCASTING SYSTEMS—INCOME BY SOURCE: 1975 TO 1983

[In millions of dollars, except as indicated. Fiscal year data for income. Beginning 1977, includes nonbroadcast income. Stations as of Dec. 31]

NUMBER OF STATIONS AND INCOME SOURCE	1975	1977	1978	1979	1980	1981	1982	1983, prel.	PERCENT DISTRIBUTION		
									1975	1980	1983, prel.
Number of CPB-qualified public radio stations.....	169	182	199	210	217	238	255	270	(x)	(x)	(x)
Public television stations.....	260	274	280	281	290	293	299	300	(x)	(x)	(x)
Total income.....	364.8	482.1	552.3	603.5	704.9	768.9	845.2	897.2	100.0	100.0	100.0
Federal government.....	92.3	135.3	160.8	163.2	192.5	193.7	197.6	163.4	25.3	27.3	18.2
State and local government ¹	156.6	191.3	218.2	245.5	271.6	277.5	301.0	314.9	42.9	38.5	35.1
Subscribers and auction/marathon.....	42.3	63.7	75.2	86.1	102.3	130.8	162.5	196.1	11.6	14.5	21.9
Business and industry.....	25.1	40.0	49.0	57.9	72.4	86.8	100.5	120.8	6.9	10.3	13.5
Foundation.....	28.7	22.6	17.2	20.4	23.5	19.3	22.1	24.8	7.9	3.3	2.8
Other.....	19.8	29.2	31.9	30.4	42.6	60.8	61.5	77.3	5.4	6.0	6.6

X Not applicable. ¹ Includes income received from State colleges and universities, and, beginning 1979 from other tax supported colleges and universities.

Source: Corporation for Public Broadcasting, Washington, DC, *Public Broadcasting Income, Fiscal Year, 1983*, and unpublished data.

NO. 932. CABLE TELEVISION—SYSTEMS AND SUBSCRIBERS: 1952 TO 1984

[Subscribers in thousands, except percent]

YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	SUBSCRIBER SIZE- GROUP ¹	Number of— ²		Percent of— ²	
							Sys- tems	Sub- scribers	Sys- tems	Sub- scribers
1952.....	70	14	1974.....	3,158	8,700	50,000 and over.....	72	5,872	1.12	19.64
1955.....	400	150	1975.....	3,508	9,800	20,000–49,999.....	271	8,207	4.23	27.46
1960.....	640	650	1976.....	3,681	10,800	10,000–19,999.....	412	5,771	6.44	19.31
1965.....	1,325	1,275	1977.....	3,832	11,800	5,000–9,999.....	578	4,075	9.04	13.63
1967.....	1,770	2,100	1978.....	3,875	13,000	3,500–4,999.....	382	1,622	5.97	5.43
1968.....	2,000	2,800	1979.....	4,150	14,100	1,000–3,499.....	1,634	3,135	25.53	10.49
1969.....	2,260	3,600	1980.....	4,225	16,000	500–999.....	1,024	737	18.00	2.47
1970.....	2,490	4,500	1981.....	4,375	18,300	250–499.....	968	351	15.09	1.17
1971.....	2,639	5,300	1982.....	4,825	21,000	Less than 250.....	823	120	12.86	.40
1972.....	2,841	6,000	1983.....	5,600	25,000					
1973.....	2,991	7,300	1984.....	6,200	30,000					

¹ Excludes 238 systems not available by subscriber size-group. ² As of March 1, 1984.

Source: Television Digest, Inc., Washington, DC, *Television & Cable Factbook*, annual. (Copyright.)

NO. 933. CABLE AND PAY TV—SUMMARY, 1955 TO 1983, AND PROJECTIONS, 1985 AND 1990

[Cable TV for calendar year. Pay TV as of Dec. 31 of year shown]

YEAR	CABLE TV				PAY TV					
	Avg. basic sub- scribers (1,000)	Avg. month- ly basic rate (dol.)	Revenue ¹ (mil. dol.)		Units ² (1,000)		Monthly rate (dol.)		Pay cable units per 1,000	
			Total	Basic	Total	Pay cable	Total	Pay- cable	Home passed	Basic cable sub- scribers
1955.....	250	5.00	20	20	(x)	(x)	(x)	(x)	(x)	(x)
1960.....	750	5.00	50	50	(x)	(x)	(x)	(x)	(x)	(x)
1965.....	1,500	5.00	95	95	(x)	(x)	(x)	(x)	(x)	(x)
1970.....	5,100	5.50	345	345	(x)	(x)	(x)	(x)	(x)	(x)
1975.....	9,800	6.50	804	774	469	469	(x)	7.65	111	236
1976.....	11,000	6.75	972	901	1,021	978	(NA)	7.87	106	223
1977.....	12,200	7.00	1,163	1,034	1,733	1,642	8.12	7.92	122	253
1978.....	13,400	7.25	1,424	1,176	3,580	3,289	8.62	8.09	179	350
1979.....	15,000	7.50	1,614	1,362	6,409	5,732	9.37	8.44	223	413
1980.....	17,500	7.75	2,435	1,647	10,389	9,144	9.78	8.80	279	506
1981.....	21,500	7.95	3,460	2,091	17,521	15,450	10.13	9.02	376	688
1982.....	25,400	8.25	4,705	2,664	23,179	20,791	10.32	9.55	462	765
1983.....	29,450	8.74	6,042	3,144	27,386	26,418	10.92	10.57	473	843
1985, proj.....	39,500	9.28	9,747	4,322	39,500	39,000	11.00	10.75	590	980
1990, proj.....	55,000	11.29	19,000	7,562	(NA)	80,000	12.50	12.50	981	1,450

NA Not available. X Not applicable. ¹ Includes installation revenue. ² Individual program services sold to subscribers.

Source: Paul Kagan Associates, Inc., Carmel, CA, *The Cable TV Financial Databook*, annual. (Copyright.)

**NO. 934. RADIO AND TELEVISION STATIONS OWNED BY NEWSPAPERS AND/OR MAGAZINES:
1961 to 1983**

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1.....	412	147	161	1972, Dec. 1.....	325	171	178	1978, Dec. 1.....	319	252	221
1965, Oct. 31.....	391	170	174	1973, Dec. 1.....	304	211	179	1979, Dec. 1.....	318	257	226
1968, Dec. 4.....	381	191	183	1974, Dec. 1.....	321	236	193	1980, Dec. 1.....	315	264	230
1969, Dec. 1.....	394	245	189	1975, Dec. 1.....	320	238	197	1981, Dec. 1.....	311	277	246
1971, Feb. 1.....	402	248	191	1976, Dec. 1.....	322	238	209	1982, Dec. 1.....	300	263	251
1971, Dec. 1.....	318	209	176	1977, Dec. 1.....	314	238	211	1983, Dec. 1.....	288	257	248

Source: Broadcasting Publications Inc., Washington, DC, *Broadcasting Cablecasting Yearbook*. (Copyright.)

NO. 935. RADIOS AND TELEVISION SETS—PRODUCTION AND IMPORTS, BY TYPE: 1965 to 1983

[In thousands, except percent]

TYPE	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
RADIOS ¹												
Total	41,726	44,427	43,992	34,515	44,101	52,926	48,035	40,029	39,574	44,359	44,088	48,535
Percent FM/AM-FM.....	15.2	48.0	59.4	85.0	59.6	65.9	66.7	68.6	77.9	78.8	83.6	86.2
Table model.....	4,970	5,714	2,764	2,253	2,876	1,990	1,805	1,250	938	1,067	794	809
Percent FM/AM-FM.....	32.0	72.8	81.7	80.6	66.4	54.5	61.3	72.5	59.3	58.0	57.1	54.4
Clock model.....	5,448	4,874	9,174	8,641	7,353	11,447	11,488	9,354	9,445	9,782	8,433	12,120
Percent FM/AM-FM.....	16.0	53.8	79.1	89.1	85.8	89.4	92.3	93.4	97.6	97.9	98.3	98.4
Portable model.....	21,871	23,461	21,292	16,382	21,427	26,599	22,074	17,044	17,721	20,627	22,555	23,525
Percent FM/AM-FM.....	15.7	55.9	61.9	88.4	55.4	61.4	59.0	63.7	68.6	70.2	78.5	80.4
Auto model.....	10,037	10,378	10,762	9,239	12,445	12,668	12,381	11,470	12,883	12,306	12,081	12,815
Percent FM/AM-FM.....	6.3	13.8	31.8	37.7	49.7	56.0	57.7	56.1	77.5	79.8	84.7	87.5
TELEVISION SETS ²												
Total	11,028	9,483	15,279	10,637	14,131	15,431	17,407	16,619	18,532	16,479	16,406	19,681
Monochrome sets	8,382	4,852	6,868	4,418	5,937	6,090	6,733	6,576	6,729	6,056	4,922	5,647
Table and portable.....	6,956	4,463	6,732	4,354	5,863	6,033	6,706	6,559	6,714	6,056	4,922	5,647
Console.....	1,318	389	136	64	74	57	27	17	15	(³)	(³)	(³)
Color sets ⁴	2,646	4,631	8,411	6,219	8,194	9,341	10,674	10,043	11,803	12,423	11,484	14,034
Table and portable.....	(NA)	2,495	5,698	4,186	5,765	6,722	7,313	7,727	9,373	9,951	9,102	11,221
Console.....	(NA)	2,018	2,674	2,008	2,377	2,591	2,739	2,295	2,430	2,572	2,382	2,813

NA Not available. ¹Products of U.S. manufacturers and imports by distributors or dealers for resale. Beginning 1974, also includes products purchased by U.S. manufacturers. ²Products produced or purchased by U.S. manufacturers for sale with their brand name. Beginning 1974, also includes products imported directly by distributors or dealers for resale. ³For 1965, includes combinations; beginning 1981, consoles included in table and portable. ⁴1965-1979 total includes combinations; beginning 1980, included with consoles.

Sources: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual. (Copyright.)

NO. 936. PUBLISHING INDUSTRY—SUMMARY: 1972 to 1982

[In millions of dollars, except as noted. Based on the censuses of manufactures; for details, see Appendix III]

ITEM	NEWSPAPERS			PERIODICALS			BOOKS		
	1972	1977	1982, prel.	1972	1977	1982, prel.	1972	1977	1982, prel.
Establishments, number.....	8,116	8,867	8,847	2,534	2,994	3,334	1,205	1,744	2,128
With 20 or more employees.....	2,119	2,147	2,555	452	525	695	307	346	417
Employees ¹ (1,000).....	349	350	404	67	70	95	57	60	67
Payroll.....	3,168	4,306	6,555	709	1,020	1,994	558	830	1,328
Value of receipts.....	8,263	13,056	21,286	3,511	6,057	11,525	2,857	4,794	7,723
Cost of materials.....	2,044	3,539	6,007	1,404	2,288	4,571	960	1,544	2,440
Value added by manufacture ²	6,220	9,519	(NA)	2,110	3,763	(NA)	1,936	3,262	(NA)
New capital expenditures.....	380	478	1,029	57	79	211	48	80	174
Fixed assets, gross value.....	3,639	5,028	(NA)	588	725	(NA)	512	680	(NA)
Inventories, yearend.....	153	382	(NA)	197	350	(NA)	629	992	(NA)

NA Not Available. ¹Represents the average number of production workers plus the number of other employees in mid-March. ²Derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, Industry Reports, series MC 77-1-27A, and *Census of Manufactures, 1982*, Preliminary Industry Reports, series MC82-1-27A(P).

NO. 937. NEWSPAPERS AND PERIODICALS: 1950 TO 1984

[Prior to 1960, excludes Alaska and Hawaii. Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243]

ITEM	1950	1960	1965	1970	1975	1979	1980	1981	1982	1983	1984
Newspapers¹	12,115	11,315	11,383	11,383	11,400	9,827	9,620	9,576	9,183	9,205	9,151
Semiweekly	337	324	357	423	506	543	537	508	498	508	525
Weekly	9,794	8,979	8,989	8,903	8,824	7,357	7,159	7,238	6,806	6,855	6,798
Daily	1,894	1,854	1,843	1,838	1,819	1,744	1,744	1,747	1,740	1,735	1,734
Periodicals¹	6,960	8,422	8,990	9,573	9,657	9,719	10,236	10,873	10,688	10,952	10,809
Weekly	1,443	1,590	1,716	1,856	1,918	1,784	1,716	1,921	1,872	1,826	1,376
Semi-monthly	416	527	550	589	537	594	645	667	689	724	658
Monthly	3,694	4,113	4,195	4,314	4,087	3,850	3,985	4,199	4,078	4,108	4,095
Bi-monthly	436	743	876	957	1,009	1,043	1,114	1,193	1,237	1,307	1,348
Quarterly	604	895	1,030	1,108	1,093	1,261	1,444	1,484	1,554	1,627	1,711

¹ Includes other not shown separately.

² Includes fortnightly (every two weeks).

Source: IMS Press, Fort Washington, PA, *The IMS '84 Year Directory of Publications*, annual. (Copyright.)

NO. 938. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS: 1950 TO 1983

[Prior to 1960, excludes Alaska and Hawaii. Number of newspapers as of the following dates: 1950 and 1960, Oct. 1; 1965, Jan. 1; 1970-1983, Feb. 1 of the following year, except 1977, as of Mar. 30 the following year. Circulation figures as of Sept. 30, except 1950-1965 as of Oct. 1. For English language newspapers only. See *Historical Statistics, Colonial Times to 1970*, series R 224-231]

ITEM	1950	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983
NUMBER OF NEWSPAPERS												
Daily: Total ¹	1,772	1,763	1,751	1,748	1,756	1,753	1,766	1,763	1,745	1,730	1,711	1,701
Morning	322	312	320	334	339	352	355	382	387	408	434	446
Evening	1,450	1,459	1,444	1,423	1,436	1,435	1,419	1,405	1,388	1,352	1,310	1,284
Sunday	549	563	562	596	639	668	696	720	736	755	768	772
CIRCULATION (mil.)												
Daily: Total ¹	53.8	58.9	60.4	62.1	60.7	61.5	62.0	62.2	62.2	61.4	62.5	62.6
Morning	21.3	24.0	24.1	25.9	25.5	26.7	27.7	28.6	29.4	30.6	33.2	33.8
Evening	32.6	34.9	36.3	36.2	35.2	34.8	34.3	33.6	32.8	30.9	29.3	28.8
Sunday	46.6	47.7	48.6	49.2	51.1	52.4	54.0	54.4	54.7	55.2	56.3	56.7

¹ Beginning 1960, all-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Yearbook*, annual. (Copyright.)

NO. 939. NUMBER AND CIRCULATION OF DAILY NEWSPAPERS, BY POPULATION-SIZE CLASS OF CITY: 1960 TO 1983

[Number of newspapers for 1960 as of Oct. 1; thereafter, as of February 1 of the following year. Circulation as of Sept. 30, except 1960 as of Oct. 1. For English language newspapers only. See table 25 for number of cities by population size]

TYPE OF DAILY AND POPULATION-SIZE CLASS	NUMBER ¹						NET PAID CIRCULATION ¹ (1,000)					
	1960	1970	1975	1980	1982	1983	1960	1970	1975	1980	1982	1983
Morning dailies, total	312	334	339	387	434	446	24,059	25,934	25,491	29,413	33,174	33,842
In cities of:												
1,000,001 or more	16	15	14	20	21	21	7,935	7,667	7,159	8,795	9,744	9,662
500,001 to 1,000,000	22	26	25	27	24	23	4,638	5,747	5,581	5,705	5,547	5,739
100,001 to 500,000	85	91	89	99	119	117	7,613	8,169	7,836	8,996	11,255	11,386
50,001 to 100,000	64	65	69	75	81	81	2,278	2,220	2,619	2,973	3,212	3,264
25,001 to 50,000	54	59	67	64	74	72	949	1,317	1,422	1,701	1,947	1,910
Less than 25,000	71	78	75	102	115	132	646	814	874	1,243	1,468	1,879
Evening dailies, total	1,459	1,429	1,436	1,388	1,310	1,284	34,911	36,231	35,166	32,788	29,313	28,802
In cities of:												
1,000,001 or more	17	12	12	11	9	9	5,021	4,718	4,156	2,994	2,310	2,334
500,001 to 1,000,000	26	24	24	23	17	15	5,375	4,807	4,573	4,101	2,352	2,227
100,001 to 500,000	116	129	127	123	120	114	9,676	10,034	9,818	8,176	6,122	7,517
50,001 to 100,000	158	178	175	156	145	141	4,501	5,221	5,379	4,896	4,474	4,400
25,001 to 50,000	256	250	248	246	248	243	4,345	4,766	4,898	5,106	5,029	4,916
Less than 25,000	886	836	850	829	771	762	5,993	6,687	7,242	7,523	7,026	7,105

¹ All-day newspapers are counted in both morning and evening columns; circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, NY, *Editor & Publisher International Yearbook*, annual. (Copyright.)

NO. 940. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, BY STATES: 1983

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only]

STATE	DAILY			SUNDAY		STATE	DAILY			SUNDAY	
	Number	Circulation ¹		Number	Net paid circulation (1,000)		Number	Circulation ¹		Number	Net paid circulation (1,000)
		Net paid (1,000)	Per capita ²					Net paid (1,000)	Per capita ²		
Total	1,701	62,644	.268	772	56,747	Missouri	48	1,469	.296	18	1,162
Alabama	27	734	.185	19	698	Montana	11	202	.247	9	206
Alaska	8	138	.288	2	104	Nebraska	19	480	.301	7	431
Arizona	19	664	.224	10	638	Nevada	8	239	.268	5	250
Arkansas	32	489	.210	17	502	New Hampshire	9	206	.215	3	103
California	120	5,994	.238	59	5,818	New Jersey	26	1,711	.229	17	1,775
Colorado	29	954	.304	10	1,010	New Mexico	20	287	.205	13	261
Connecticut	24	909	.290	10	773	New York	78	8,139	.461	33	5,933
Delaware	3	150	.248	2	155	North Carolina	55	1,393	.229	25	1,190
District of Columbia	3	1,520	.244	1	987	North Dakota	10	194	.285	5	147
Florida	51	2,758	.258	34	3,000	Ohio	92	3,032	.282	30	2,678
Georgia	36	1,030	.190	15	1,078	Oklahoma	53	865	.262	44	888
Hawaii	7	253	.247	2	216	Oregon	20	628	.236	9	646
Idaho	14	217	.219	7	193	Pennsylvania	96	3,471	.292	21	2,906
Illinois	74	2,724	.237	24	2,735	Rhode Island	7	314	.326	2	259
Indiana	75	1,601	.292	18	1,219	South Carolina	17	601	.184	8	526
Iowa	38	807	.278	9	736	South Dakota	12	168	.240	4	125
Kansas	46	561	.231	18	493	Tennessee	30	1,022	.218	16	1,028
Kentucky	25	740	.199	12	645	Texas	114	3,715	.236	96	4,277
Louisiana	25	798	.180	16	845	Utah	6	288	.178	6	309
Maine	9	290	.253	3	270	Vermont	8	120	.229	3	80
Maryland	16	764	.178	5	663	Virginia	38	1,179	.212	15	891
Massachusetts	45	2,090	.362	10	1,622	Washington	28	1,126	.262	17	1,091
Michigan	52	2,507	.276	15	2,498	West Virginia	25	468	.238	10	406
Minnesota	26	922	.222	11	998	Wisconsin	35	1,192	.251	11	965
Mississippi	24	415	.160	12	337	Wyoming	10	103	.200	4	75

¹ Circulation figures based on the principal community served by a newspaper which is not necessarily the same location as the publisher's office. ² Per capita based on total resident population estimated as of July 1, 1983.

Source: Editor & Publisher Co., Inc., New York, NY, *Editor & Publisher International Year Book*, annual. (Copyright.)

NO. 941. COPYRIGHT REGISTRATION, BY SUBJECT MATTER: 1980 TO 1983

[In thousands. For years ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 82-95]

SUBJECT MATTER OF COPYRIGHT	1980	1982	1983	SUBJECT MATTER OF COPYRIGHT	1980	1982	1983
Total	464.7	468.1	488.2	Motion pictures and filmstrips.....	8.5	7.8	9.1
Monographs ¹	119.2	116.3	129.3	Works of the visual arts ²	40.0	41.7	37.0
Serials.....	117.9	112.4	106.1	Cartographic works.....	.8	.5	.4
Musical works.....	120.2	125.4	127.8	Sound recordings.....	12.8	13.9	21.7
Dramatic works, including any accom-				Multimedia works.....	2.0	2.3	2.1
panying music.....	8.0	8.7	9.5	Machine readable works.....	1.9	2.7	6.0
Choreography and pantomimes.....	(z)	.1	.1	Renewals.....	33.0	36.3	39.1

Z Less than 50. ¹ Includes computer software. ² Two-dimensional works of fine and graphic art, including prints and art reproductions; sculptural works; technical drawings and models; photographs; commercial prints and labels; and works of applied arts.

Source: The Library of Congress, *Annual Report*.

NO. 942. ADVERTISING—ESTIMATED EXPENDITURES: 1950 TO 1983

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446]

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950.....	5,700	3,260	2,440	1972.....	23,210	12,980	10,230	1978.....	43,330	23,720	19,610
1955.....	9,150	5,380	3,770	1973.....	24,980	13,700	11,280	1979.....	48,780	26,695	22,085
1960.....	11,960	7,305	4,855	1974.....	26,620	14,700	11,920	1980.....	53,550	29,815	23,735
1965.....	15,250	9,340	5,910	1975.....	27,900	15,200	12,700	1981.....	60,430	33,890	26,540
1970.....	19,550	11,350	8,200	1976.....	33,300	18,355	14,945	1982.....	66,580	37,785	28,795
1971.....	20,700	11,755	8,945	1977.....	37,440	20,595	16,845	1983, prel.....	75,850	42,525	33,325

Source: McCann-Erickson, Inc., New York, NY. Compiled for Grain Communications, Inc. in *Advertising Age* (copyright).

NO. 943. ADVERTISING—INDEXES OF NATIONAL ADVERTISING EXPENDITURES, BY MEDIUM:
1950 TO 1983

[1967=100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1950	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983
General index	25	67	90	112	143	205	236	289	298	333	369	414
Network television.....	6	56	85	114	158	238	273	316	353	383	427	462
Spot television.....	3	53	90	125	184	223	261	291	330	378	441	466
Magazines.....	38	73	93	104	118	174	209	236	253	284	298	340
Weeklies.....	40	81	94	95	94	139	178	204	218	245	255	294
Women's.....	46	65	95	107	130	200	238	259	277	302	321	374
Monthlies.....	28	64	90	120	155	222	246	280	304	347	368	404
Newspapers.....	61	92	93	105	131	174	182	209	232	267	290	323

Source: McCann-Erickson, Inc., New York, NY. Compiled for Grain Communications, Inc. In *Advertising Age* (copyright).

NO. 944. ADVERTISING—ESTIMATED EXPENDITURES, BY MEDIUM: 1970 TO 1983

[In millions of dollars, except percent. See text, page 537 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 106-109, R 123-126, and T 444-471]

MEDIUM	EXPENDITURES								PERCENT			
	1970	1975	1978	1979	1980	1981	1982	1983, prel.	1970	1975	1980	1983, prel.
Total	19,550	27,900	43,330	48,780	53,550	60,430	66,580	75,850	100.0	100.0	100.0	100.0
National.....	11,350	15,200	23,720	26,695	29,815	33,890	37,785	42,525	58.1	54.5	55.7	56.1
Local.....	8,200	12,700	19,610	22,085	23,735	26,540	28,795	33,325	41.9	45.5	44.3	43.9
Newspapers.....	5,704	8,234	12,214	13,863	14,794	16,528	17,694	20,582	29.2	29.5	27.7	27.1
National.....	891	1,109	1,541	1,770	1,963	2,259	2,452	2,734	4.6	4.0	3.7	3.8
Local.....	4,813	7,125	10,673	12,093	12,831	14,269	15,242	17,848	24.6	25.5	24.0	23.5
Magazines.....	1,292	1,465	2,597	2,992	3,148	3,593	3,710	4,299	6.6	5.2	5.9	5.6
Weeklies.....	617	812	1,158	1,327	1,418	1,598	1,659	1,917	3.2	2.2	2.5	2.5
Women's.....	301	368	672	730	782	853	904	1,056	1.5	1.3	1.5	1.4
Monthlies.....	374	485	767	875	949	1,082	1,147	1,280	1.9	1.7	1.8	1.7
Farm publications.....	62	74	104	120	130	146	148	163	.3	.3	.2	.2
Television.....	3,598	5,263	8,955	10,154	11,366	12,650	14,329	16,136	18.4	18.9	21.2	21.3
Network.....	1,658	2,306	3,975	4,599	5,130	5,575	6,210	7,017	8.5	8.3	9.8	9.3
Spot.....	1,234	1,623	2,607	2,873	3,269	3,730	4,360	4,796	6.3	5.8	6.1	6.3
Local.....	704	1,334	2,373	2,682	2,967	3,345	3,759	4,323	3.6	4.8	5.5	5.7
Radio.....	1,308	1,980	3,052	3,310	3,702	4,230	4,670	5,210	6.7	7.1	6.9	6.9
Network.....	56	83	147	161	183	230	255	296	.3	.3	.3	.4
Spot.....	371	436	620	665	779	879	923	1,038	1.9	1.6	1.5	1.4
Local.....	881	1,461	2,285	2,484	2,740	3,129	3,492	3,876	4.5	5.2	5.1	5.1
Direct mail.....	2,766	4,124	5,987	6,653	7,596	8,944	10,319	11,795	14.1	14.8	14.2	15.6
Business papers.....	740	919	1,400	1,575	1,674	1,841	1,876	1,990	3.8	3.3	3.1	2.6
Outdoor.....	234	335	466	540	578	650	721	794	1.2	1.2	1.1	1.1
National.....	154	220	307	355	364	419	465	512	.8	.8	.7	.7
Local.....	80	115	159	185	214	231	256	282	.4	.4	.4	.4
Miscellaneous.....	3,848	5,506	8,555	9,633	10,561	11,908	13,113	14,847	19.7	19.7	19.7	19.6
National.....	2,126	2,841	4,435	4,992	5,578	6,334	7,067	7,951	10.9	10.2	10.4	10.5
Local.....	1,722	2,665	4,120	4,641	4,983	5,574	6,046	6,896	8.8	9.5	9.3	9.1

Source: McCann-Erickson, Inc., New York, NY. Compiled for Grain Communications, Inc. In *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

NO. 945. MAGAZINE ADVERTISING—EXPENDITURES, BY PRODUCT: 1975 TO 1983

[In millions of dollars, except percent. Space cost based on one-time rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

TYPE OF PRODUCT	1975	1979	1980	1981	1982	1983	PERCENT DISTRIBUTION		
							1975	1980	1983
Expenditures	1,336	2,671	2,846	3,223	3,421	3,939	100.0	100.0	100.0
Apparel, footwear, and accessories.....	47	92	112	141	154	206	3.5	3.9	5.2
Automotive, incl. accessories and equipment.....	102	224	229	290	333	404	7.6	8.0	10.3
Beer, wine, and liquor.....	101	236	239	251	258	243	7.6	8.4	6.2
Consumer services ¹	102	172	190	206	232	329	7.8	6.7	8.4
Drugs and remedies.....	34	71	78	88	89	104	2.5	2.7	2.6
Food and food products.....	87	186	199	213	240	263	6.5	7.0	6.7
Household equipment and supplies.....	25	67	65	82	69	81	1.9	2.3	2.1
Household furnishings.....	31	64	73	83	81	94	2.6	2.6	2.4
Industrial materials.....	34	70	71	67	51	44	2.6	2.5	1.1
Insurance.....	22	53	56	56	56	61	1.7	2.0	1.5
Radios, TV's, phonos, musical instruments ²	35	80	84	108	98	100	2.6	3.0	2.5
Smoking materials.....	144	281	290	314	358	398	10.8	10.2	10.1
Toiletries and toilet goods.....	106	198	206	230	241	279	7.9	7.2	7.1
Travel, hotels, and resorts.....	65	110	123	137	153	174	4.9	4.3	4.4
All other (incl. retail and/or direct-mail).....	402	767	831	957	1,013	1,159	30.1	29.2	29.4

¹ Includes business services. ² Includes accessories.

Source: Magazine Publishers Association, Inc., New York, NY, from data compiled by Publishers Information Bureau, Inc.

NO. 946. TELEVISION—EXPENDITURES FOR NETWORK ADVERTISING: 1980 TO 1983

[In millions of dollars. See text, page 537 for a definition of network advertising]

TYPE OF PRODUCT	1980	1981	1982	1983	TYPE OF PRODUCT	1980	1981	1982	1983
Expenditures.....	5,147	5,593	6,232	7,042	Horticulture.....	15	14	18	20
Apparel, footwear, and accessories.....	131	155	160	199	Household equipment, supplies, and furnishings.....	225	243	239	238
Automotive.....	529	509	596	745	Insurance.....	74	78	73	87
Beer and wine.....	242	267	303	358	Jewelry and cameras ¹	119	120	151	143
Bldg. material, equipment, fixtures.....	59	65	70	68	Laundry soaps, cleansers, and polishes.....	306	314	322	353
Confectionery, soft drinks.....	281	283	300	307	Office equipment, stationery, and supplies.....	57	66	129	260
Consumer services.....	178	129	157	200	Pet products.....	144	142	149	160
Dept. and discount stores.....	94	111	144	171	Proprietary medicines.....	430	468	529	575
Entertainment and amusement.....	235	254	280	327	Publishing and media.....	34	37	76	82
Food and food products.....	844	897	995	1,064	Tobacco products and supplies.....	8	15	7	8
Freight and industrial development.....	7	20	24	50	Toiletries and toilet goods.....	765	852	897	921
Gas, lubricants, etc.....	71	79	55	42	Toys and sporting goods.....	93	102	100	113
Home electronics equipment.....	50	101	164	158	Travel, hotels, and resorts.....	53	39	73	79
					All other.....	103	195	221	304

¹ Includes optical goods.

NO. 947. TELEVISION—ESTIMATED TIME CHARGES FOR SPOT ADVERTISING: 1980 TO 1983

[In millions of dollars. Data represent activity in the 75 markets monitored by Broadcast Advertisers Reports, Inc. (BAR), covering approximately 298 stations. See text, page 537 for a definition of types of advertising]

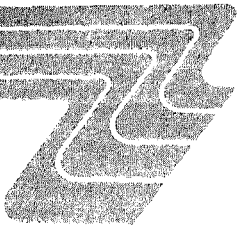
TYPE OF PRODUCT	1980	1981	1982	1983	TYPE OF PRODUCT	1980	1981	1982	1983
Estimated time charges.....	2,496	2,847	3,342	3,676	Household equipment, supplies, and furnishings.....	133	144	151	190
Agriculture and farming.....	15	18	21	19	Insurance.....	34	48	51	57
Apparel, footwear, and accessories.....	105	108	96	101	Jewelry, optical goods, and cameras.....	55	56	53	54
Automotive.....	228	285	361	412	Laundry soaps, polishes.....	111	116	157	166
Beer and wine.....	156	182	205	200	Office equipment, stationery, and supplies.....	15	20	52	73
Bldg. material, equipment, and fixtures.....	47	57	53	55	Pet products.....	33	37	55	56
Confectionery, soft drinks.....	212	252	296	327	Proprietary medicines.....	93	102	107	133
Consumer services.....	83	97	140	165	Publishing and media.....	78	81	97	115
Food and food products.....	507	581	705	776	Tobacco products, suppliers.....	8	12	11	11
Freight and industrial development.....	5	12	41	32	Toiletries and toilet goods.....	223	225	222	242
Gasoline, lubricants, etc.....	50	84	90	87	Toys and sporting goods.....	104	109	120	101
Home electronics equipment.....	73	77	108	120	Travel, hotels, and resorts.....	76	90	121	139
Horticulture.....	35	34	32	30	All other.....	17	20	27	16

NO. 948. TELEVISION—EXPENDITURES FOR RETAIL/LOCAL ADVERTISING: 1980 TO 1983

[In millions of dollars. See headnote, table 947]

TYPE OF PRODUCT	1980	1981	1982	1983	TYPE OF PRODUCT	1980	1981	1982	1983
Expenditures.....	1,983	2,269	2,578	2,979	Home building construction, building supplies.....	35	43	47	65
Amusements, entertainment.....	68	79	91	99	Hotels, resorts, U.S.....	18	24	37	42
Appliance stores, repair.....	38	47	50	75	Investment brokers.....	7	12	11	27
Auto repair, service stations.....	26	34	44	52	Jewelry stores.....	19	23	23	25
Auto supply, accessory stores.....	12	25	30	35	Legal services.....	5	6	11	18
Auto, truck dealers.....	99	113	121	173	Leisure time stores and services.....	42	60	75	82
Banks, S&L associations.....	141	158	155	166	Loan, mortgage companies.....	12	13	12	20
Builders, real estate.....	26	24	25	34	Mall order, catalog showrooms.....	13	15	18	21
					Medical, dental services.....	13	22	28	41
Carpet, floor covering stores.....	24	28	26	34	Movies.....	102	99	90	98
Clothing stores.....	46	50	55	66	Newspapers.....	15	18	19	22
Department stores.....	131	139	141	164	Optical services, supplies.....	14	11	13	17
Discount department stores.....	74	85	78	79	Political.....	70	20	118	24
Drug stores.....	26	34	45	55	Radio, cable TV.....	69	99	120	127
Education services.....	17	20	27	36	Rental services (non-auto).....	15	19	24	29
Food stores, supermarkets.....	149	175	193	229	Restaurants, drive-ins.....	288	351	406	498
Furniture stores.....	111	118	113	144	Shoe stores.....	27	28	28	32
Gas, electric, water companies.....	16	21	24	27	Shopping centers, ass'ns.....	13	14	15	18
Hardware stores.....	19	21	23	23	Sport, hobby, toy stores.....	23	35	39	42
Health clubs, reducing salons.....	21	29	28	29	All other.....	137	157	177	211

Source of tables 946-948: Television Bureau of Advertising, Inc., New York, NY. Data compiled by Broadcast Advertisers Reports, Inc., New York, NY.



Energy

This section presents statistics on fuel resources, energy production and consumption, electric energy, hydropower, nuclear power, solar energy, and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, DC, and the American Gas Association, Arlington, VA. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see Section 22; on fuels, see Section 27; and on energy-related housing characteristics, see Section 28.

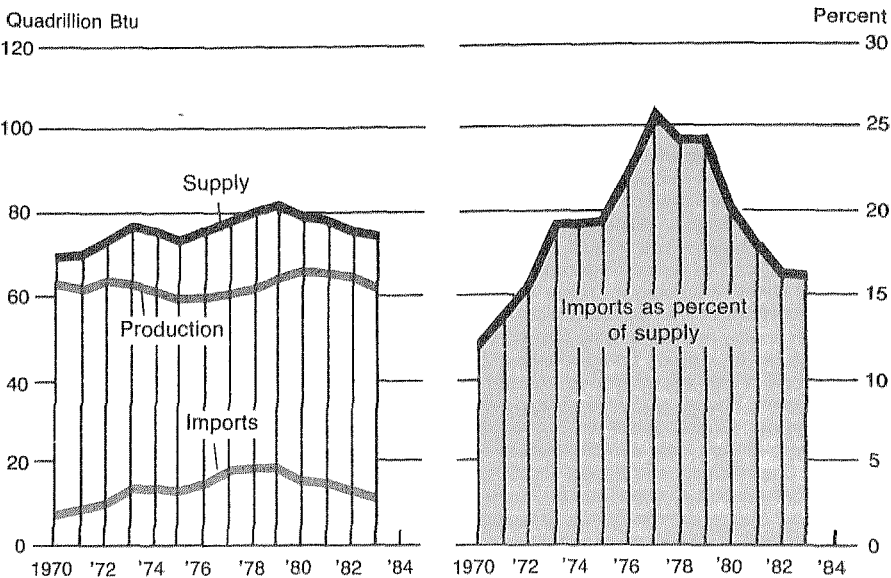
The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydropower, nuclear power, and solar and geothermal energy. Among its annual reports are *Annual Energy Review*, *Electric Power Annual*, *Natural Gas Annual*, *Petroleum Supply Annual*, *State Energy Data Report*, *Energy Price and Expenditure Report*, *Financial Statistics of Selected Electric Utilities*, *Historical Capital Costs and Annual Production Expenses*, *Residential Energy Consumption Survey*, *Performance Profiles of Major Energy Producers*, *Typical Electric Bills*, *Annual Energy Outlook*, and *International Energy Annual*. These various publications contain national and State data on production of electricity, capacity of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data, and separate weekly and monthly publications on petroleum, coal, natural gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published in *Residential Energy Consumption Survey: Consumption and Expenditures*, and *Residential Energy Consumption Survey: Conservation*, and several other reports.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. A wide range of petroleum statistics are provided in the American Petroleum Institute publication *Basic Petroleum Data Book*.

Btu conversion factors.—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatt-hours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1983 for production and consumption, in that order, for various fuels: Petroleum, 5,800 and 5,410 mil. Btu per barrel; bituminous coal and lignite, 22.02 and 21.55 mil. Btu per short ton; anthracite coal 23.75 and 22.80 mil. Btu per short ton; and natural gas, 1,028 and 1,028 Btu per cubic foot. The factors for the production of hydropower, nuclear power, and geothermal power were 10,470, 11,015, and 21,594 Btu per kilowatt-hour, respectively.

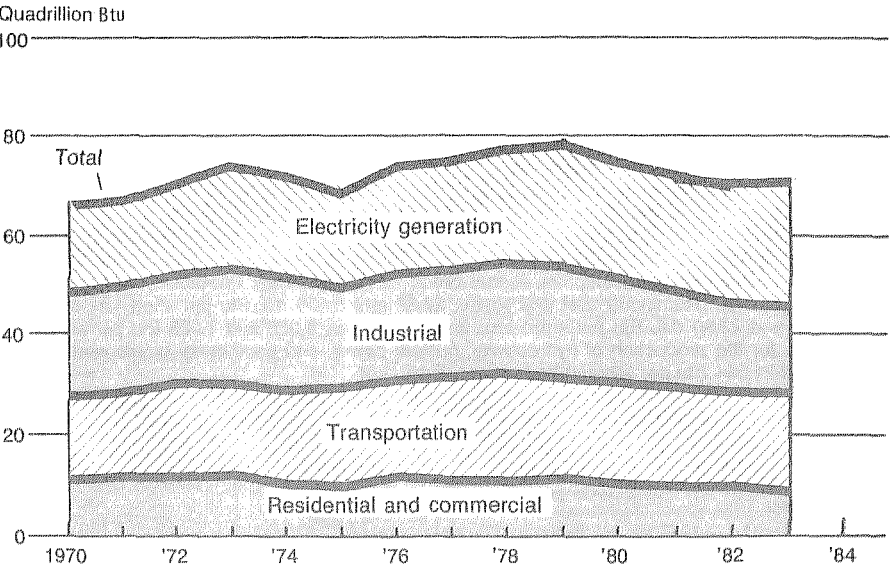
Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 20.1
Energy Production, Supply, and Imports: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 951.

Figure 20.2
Primary Energy Resources—Consumption by Major Consumer Group: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 954.

No. 949. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1950 TO 1983

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14]

YEAR	Total horse- power	AUTOMOTIVE ^{1 2}		NONAUTOMOTIVE							
		Total	Per- cent of total	Total	Facto- ries ³	Mines ³	Rail- roads ⁴	Mer- chant ships and sailing vessels	Farms	Elec- tric cen- tral sta- tions ⁵	Air- craft ^{4 6}
1950.....	4,868	4,404	90.5	464	33	22	111	⁶ 23	165	88	⁶ 22
1955.....	7,158	6,632	92.7	526	36	31	60	⁶ 24	212	138	⁶ 26
1960.....	11,008	10,367	94.2	641	42	35	47	24	240	217	37
1965.....	15,096	14,306	94.8	790	48	40	44	24	272	307	55
1970.....	20,408	19,325	94.7	1,083	54	45	54	22	290	435	183
1972.....	22,913	21,736	94.9	1,175	57	46	57	21	305	508	181
1973.....	24,262	23,029	94.9	1,233	58	46	57	20	308	562	182
1974.....	24,516	23,224	94.7	1,292	59	46	61	21	315	605	185
1975.....	25,100	23,752	94.6	1,348	60	47	62	22	318	654	185
1976.....	25,732	24,399	94.6	1,393	61	47	64	22	324	692	184
1977.....	26,469	25,025	94.5	1,444	62	47	62	23	328	728	194
1978.....	27,379	25,892	94.6	1,487	63	48	64	25	⁷ 335	754	198
1979.....	28,162	26,617	94.5	1,545	63	48	62	26	342	803	201
1980.....	28,922	27,362	94.6	1,564	64	48	63	28	345	806	210
1981.....	29,507	27,909	94.6	1,598	64	48	65	29	345	835	212
1982.....	30,495	28,852	94.6	1,643	64	48	64	29	352	854	232
1983.....	31,338	29,662	94.7	1,676	64	47	63	29	356	877	240

¹ Includes passenger cars, trucks, buses, and motorcycles. ² As of July 1. ³ Beginning 1965, data are estimates. ⁴ Beginning 1965, not strictly comparable with earlier years. ⁵ Includes private planes and commercial airlines. ⁶ Includes Alaska and Hawaii. ⁷ Includes estimates of about 3.0 million hp in work animals and 30,000 in windmills.

Source: 1950 and 1955, The Twentieth Century Fund, New York, NY, J.F. Dewhurst and Associates, *America's Needs and Resources, A New Survey*, and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958*. Beginning 1960, John A. Waring, Arlington, VA, unpublished estimates.

No. 950. ENERGY PRODUCTION AND CONSUMPTION, BY MAJOR SOURCE: 1950 TO 1983

[Btu=British thermal unit. For Btu conversion factors, see text, p. 551. See also *Historical Statistics, Colonial Times to 1970*, series M 76-92]

YEAR	Total production (quad. Btu)	PERCENT OF PRODUCTION				Total consumption (quad. Btu)	PERCENT OF CONSUMPTION				Consumption/production ratio
		Coal	Petroleum ¹	Natural gas ²	Other ³		Coal	Petroleum ¹	Natural gas ²	Other ³	
1950	34.5	42.7	33.4	20.0	3.9	33.6	38.1	39.8	18.1	4.0	.97
1955	39.1	32.5	37.0	27.0	3.4	39.2	29.1	44.2	23.3	3.5	1.00
1960	41.4	26.0	36.0	34.1	3.9	43.7	22.4	45.5	28.3	3.8	1.06
1961	41.9	24.8	36.3	34.9	4.0	44.4	21.6	45.5	29.1	3.8	1.06
1962	43.5	24.9	35.7	35.2	4.2	46.5	21.2	45.3	29.5	4.0	1.07
1963	45.8	25.8	34.9	35.4	4.0	48.3	21.5	45.0	29.8	3.7	1.05
1964	47.7	26.1	33.9	35.9	4.1	50.4	21.6	44.2	30.3	3.9	1.06
1965	49.3	26.4	33.5	35.8	4.3	52.6	21.9	44.2	30.0	4.0	1.07
1966	52.1	25.7	33.7	36.5	4.1	55.6	21.7	33.9	30.6	3.8	1.07
1967	55.0	25.0	33.9	36.6	4.4	57.5	20.8	44.0	31.2	4.2	1.05
1968	56.7	23.9	34.0	37.7	4.4	60.9	20.1	44.3	31.5	4.1	1.07
1969	59.0	23.4	33.1	38.7	4.8	64.1	19.2	44.2	32.2	4.4	1.09
1970	62.0	23.4	32.9	39.0	4.7	66.4	18.4	44.5	32.8	4.3	1.07
1971	61.2	21.4	32.7	40.5	5.3	67.8	17.0	45.1	33.1	4.8	1.11
1972	62.4	22.5	32.1	39.8	5.6	71.2	16.9	46.3	31.9	5.0	1.14
1973	62.0	22.5	31.4	39.9	6.2	74.2	17.4	46.9	30.3	5.3	1.20
1974	60.8	23.1	30.6	39.0	7.4	72.5	17.4	48.2	30.0	6.5	1.19
1975	59.8	25.0	29.6	36.8	8.6	70.5	17.9	46.4	28.3	7.4	1.18
1976	59.9	26.1	28.8	36.4	8.6	74.3	18.2	47.3	27.4	7.1	1.24
1977	60.1	26.1	29.0	36.4	8.5	76.2	18.2	48.7	26.2	7.0	1.27
1978	61.0	24.3	30.2	35.6	9.9	78.0	17.6	48.6	25.6	8.2	1.28
1979	63.7	27.4	28.4	35.1	9.1	78.8	19.0	47.1	26.2	7.7	1.24
1980	64.7	28.7	28.2	34.2	8.9	75.9	20.3	45.1	26.9	7.8	1.17
1981	64.4	28.5	28.2	34.2	9.2	73.9	21.4	43.2	27.0	8.4	1.15
1982	63.9	29.1	28.7	32.0	10.2	70.8	21.6	42.7	26.1	9.6	1.11
1983, prel	61.0	28.3	30.0	30.4	11.2	70.5	22.5	42.6	24.7	10.2	1.15

¹ Production includes crude oil and lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products. ² Production includes natural gas liquids; consumption excludes natural gas liquids. ³ Comprised of hydropower, nuclear power, geothermal energy and other.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 951. ENERGY SUPPLY AND DISPOSITION, BY TYPE OF FUEL: 1960 TO 1983

[In quadrillion British thermal units (Btu), except percent. For Btu conversion factors, see text, p. 551]

TYPE OF FUEL	1960	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.
Total supply ¹	45.2	69.0	76.3	74.7	72.8	76.5	78.3	80.0	81.7	79.6	78.3	75.5	74.2
Production.....	41.4	62.0	62.0	60.8	59.8	59.9	60.1	61.0	63.7	64.7	64.4	63.9	61.0
Crude oil ²	14.9	20.4	19.5	18.8	17.7	17.3	17.5	18.4	18.1	18.3	18.1	18.3	18.3
Natural gas liquids.....	1.5	2.5	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.0	2.2
Natural gas ³	12.7	21.7	22.2	21.2	19.6	19.5	19.6	19.5	20.1	19.9	19.7	18.3	18.3
Coal.....	10.8	14.5	13.9	14.0	14.9	15.6	15.7	14.9	17.5	18.5	18.3	18.6	17.3
Nuclear power.....	(2)	2	.9	1.3	1.9	2.1	2.7	3.0	2.8	2.7	3.0	3.1	3.2
Hydropower.....	1.6	2.6	2.9	3.2	3.2	3.0	2.9	2.9	2.9	2.9	2.8	3.3	3.5
Geothermal and other.....	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Imports ⁴	4.2	8.4	14.7	14.4	14.1	16.8	20.1	19.3	19.6	16.0	14.0	12.1	11.9
Percent of supply.....	9.3	12.2	19.3	19.3	19.4	22.0	25.7	24.1	24.0	20.1	17.9	16.0	16.0
Crude oil.....	2.2	2.8	6.9	7.4	8.7	11.2	14.0	13.5	13.8	11.2	9.3	7.4	7.0
Refined petroleum products ⁵	1.8	4.7	6.6	5.7	4.2	4.4	4.7	4.4	4.1	3.5	3.3	3.4	3.5
Natural gas.....	.2	.9	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.0	.9	1.0	1.0
Total disposition.....	45.2	69.0	76.3	74.7	72.8	76.5	78.3	80.0	81.7	79.6	78.3	75.5	74.2
Consumption.....	43.7	66.4	74.2	72.5	70.5	74.3	76.2	78.0	78.8	75.9	73.9	70.8	70.5
Refined petroleum products.....	19.9	29.5	34.8	33.5	32.7	35.2	37.1	38.0	37.1	34.2	31.9	30.2	30.0
Natural gas.....	12.4	21.8	22.5	21.7	20.0	20.4	19.9	20.0	20.7	20.4	19.9	18.5	17.4
Coal.....	9.8	12.2	12.9	12.6	12.6	13.5	13.8	13.7	15.0	15.4	15.9	15.3	15.9
Nuclear power.....	(2)	.2	.9	1.3	1.9	2.1	2.7	3.0	2.7	2.7	3.0	3.1	3.2
Hydropower ⁶	1.7	2.7	3.0	3.3	3.2	3.1	2.5	3.1	3.1	3.1	3.1	3.6	3.9
Geothermal and other.....	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Exports.....	1.5	2.7	2.1	2.2	2.4	2.2	2.1	1.9	2.9	3.7	4.3	4.6	3.7
Coal.....	1.0	1.9	1.4	1.6	1.7	1.6	1.4	1.0	1.7	2.4	2.9	2.8	2.0

Z. Less than .50 trillion. ¹ Includes adjustments for stock changes, losses, gains, and miscellaneous changes, not shown separately. ² Includes lease condensate. ³ Dry marketed gas. ⁴ Includes other types, not shown separately. ⁵ Includes imports of unfinished oils and natural gas liquids. ⁶ Includes industrial generation and net electricity imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 952. SELECTED ENERGY INDICATORS—SUMMARY: 1950 TO 1983

[Btu=British thermal unit. For Btu conversion factors, see text, p. 551]

YEAR	ANNUAL AVERAGE PERCENT CHANGE ¹								PER CAPITA ⁶ (mil. Btu)		Con- sumption per dollar GNP ⁵ (1,000 Btu)	
	Energy production				Energy consumption				GNP ⁶	Energy pro- duction		Energy con- sumption
	Total ²	Crude oil ³	Natural gas ⁴	Coal	Total ²	Re- fined petro- leum prod- ucts	Natural gas (dry)	Coal				
1950.....	12.4	7.2	15.8	16.7	8.2	12.1	15.9	2.3	8.7	227	221	62.9
1955.....	2.5	4.7	6.4	-2.7	3.1	5.3	8.6	-2.3	4.2	237	237	59.6
1960.....	1.2	-7	6.3	-2.8	2.2	2.9	6.6	(z)	2.3	230	243	59.3
1965.....	3.5	2.0	4.5	3.8	3.8	3.1	4.9	3.3	4.7	255	272	56.6
1970.....	4.7	4.3	6.5	2.2	4.8	4.9	6.7	1.2	3.2	304	325	61.1
1971.....	-1.2	-1.8	2.8	-9.7	2.2	3.5	3.1	-5.4	3.4	296	328	60.4
1972.....	1.8	(2)	-3	6.8	5.0	7.8	1.0	4.1	5.7	298	340	60.0
1973.....	-6	-2.7	-1	-7	4.2	5.7	-8	7.4	5.8	293	351	59.2
1974.....	-2.0	-4.7	-4.4	.6	-2.3	-4.0	-3.5	-2.3	-6	285	340	58.2
1975.....	-1.6	-4.5	-7.4	6.6	-2.8	-2.2	-8.2	(z)	-1.2	278	327	57.2
1976.....	.1	-2.7	-8	4.8	5.4	7.5	2.0	7.3	5.4	275	341	57.2
1977.....	.4	1.1	.5	.2	2.6	5.5	-2.1	2.4	5.5	274	347	55.6
1978.....	1.5	5.6	-4	-5.2	2.4	2.3	.4	-1.0	5.0	275	351	54.2
1979.....	4.4	-1.8	3.0	17.7	1.0	-2.2	3.4	9.3	2.8	284	351	53.3
1980.....	1.5	.8	.9	6.1	-3.7	-7.9	-1.3	2.6	-3	285	334	51.5
1981.....	-5	-6	-7	-1.1	-2.6	-6.1	-2.4	3.2	2.5	280	322	48.8
1982.....	-8	.9	-7.1	1.5	-4.2	-4.5	-7.2	-3.6	-2.1	275	306	47.7
1983, prel.....	-4.4	.1	-9.3	-7.1	-5	-7	-5.8	3.7	3.7	281	301	46.0

Z. Less than .05 percent. ¹ Represents annual average for period of intervals shown; for 1950, change from 1949. Percent change derived from Btu values. Minus sign indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Includes types of fuel or power not shown separately. ³ Includes lease condensate. ⁴ Includes natural gas plant liquids. ⁵ Gross national product in constant (1972) dollars, see table 715. ⁶ Based on resident population estimated as of July 1.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 953. ENERGY CONSUMPTION—END-USE SECTOR AND SELECTED SOURCE, BY STATE: 1982

[In trillions of Btu, except as indicated. For Btu conversion factors, see text, p. 551. For composition of regions, see fig. 1 inside front cover]

REGION, DIVISION, AND STATE	Total ¹	Per capita ² (mil. Btu)	END-USE SECTOR					SOURCE				
			Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydro-power	Nuclear power	
U.S.	70,756	305	14,742	10,864	26,084	19,066	30,232	18,498	15,233	3,593	3,115	
Region:												
Northeast.....	11,512	233	2,948	2,247	3,259	3,058	6,066	2,223	1,771	535	787	
Midwest.....	18,170	308	4,397	2,819	6,688	4,271	6,514	4,831	5,716	255	852	
South.....	28,297	381	4,841	3,614	12,337	7,506	12,007	8,347	6,044	464	1,335	
West.....	12,799	283	2,559	2,184	3,827	4,230	5,846	3,099	1,702	2,340	140	
New England:	2,736	220	769	534	661	772	1,818	327	124	92	292	
Maine.....	371	326	70	38	179	86	270	3	6	62	50	
New Hampshire.....	188	198	56	27	49	56	122	10	28	13	-	
Vermont.....	107	520	32	16	27	32	58	5	1	11	46	
Massachusetts.....	1,216	211	352	285	218	362	821	200	90	3	46	
Rhode Island.....	177	186	52	34	41	51	98	29	(2)	(2)	-	
Connecticut.....	678	217	208	137	147	186	450	80	1	4	150	
Middle Atlantic:	8,778	238	2,179	1,713	2,598	2,286	4,248	1,896	1,647	443	495	
New York.....	3,456	197	918	899	796	844	1,819	787	284	426	155	
New Jersey.....	2,064	278	454	360	535	715	1,229	386	78	-	155	
Pennsylvania.....	3,256	274	807	454	1,287	728	1,200	713	1,285	19	181	
East North Central:	12,744	306	3,083	1,967	4,891	2,804	4,273	3,423	4,185	66	618	
Ohio.....	3,549	329	808	501	1,505	736	1,205	835	1,391	(2)	36	
Indiana.....	2,156	393	430	226	1,067	432	650	480	1,013	5	-	
Illinois.....	3,937	291	837	646	1,088	785	1,198	1,020	783	1	304	
Michigan.....	2,335	267	669	393	806	566	760	788	894	35	165	
Wisconsin.....	1,268	267	339	201	425	304	460	320	325	25	113	
West North Central:	5,426	313	1,314	852	1,795	1,467	2,241	1,408	1,531	189	234	
Minnesota.....	1,186	287	307	168	404	307	503	269	214	65	112	
Iowa.....	954	328	235	143	348	228	371	243	247	10	25	
Missouri.....	1,374	278	359	235	375	405	571	287	525	17	-	
North Dakota.....	246	366	53	33	88	73	136	29	199	27	-	
South Dakota.....	200	288	51	27	60	52	109	26	37	57	-	
Nebraska.....	511	322	128	102	145	135	203	142	96	13	96	
Kansas.....	956	397	181	144	375	256	349	412	213	(2)	-	
South Atlantic:	10,049	262	2,223	1,591	3,057	3,179	4,569	1,393	3,022	159	837	
Delaware.....	180	299	32	31	66	50	118	29	48	-	-	
Maryland.....	1,094	256	258	161	362	313	487	182	225	14	114	
District of Columbia.....	163	260	31	54	42	37	47	30	3	-	-	
Virginia.....	1,480	266	328	271	394	468	628	155	272	10	192	
West Virginia.....	710	362	130	76	367	137	192	133	820	12	-	
North Carolina.....	1,556	259	362	223	523	449	642	146	624	57	101	
South Carolina.....	940	291	190	129	375	247	320	101	268	25	145	
Georgia.....	1,605	284	334	224	505	542	677	302	526	38	73	
Florida.....	2,342	224	557	423	423	938	1,459	335	236	3	213	
East South Central:	4,907	330	877	622	2,005	1,303	1,698	930	1,695	250	416	
Kentucky.....	1,242	336	245	153	525	319	434	194	629	35	-	
Tennessee.....	1,530	329	340	236	555	399	482	213	463	102	111	
Alabama.....	1,353	343	244	143	633	333	457	247	503	112	305	
Mississippi.....	782	304	148	90	292	253	325	277	100	-	-	
West South Central:	13,341	528	1,841	1,401	7,275	3,024	5,740	6,024	1,327	55	82	
Arkansas.....	763	331	152	93	310	203	300	233	125	22	82	
Louisiana.....	3,288	500	283	306	2,118	681	1,417	1,630	201	-	-	
Oklahoma.....	1,319	409	254	183	531	351	451	697	201	22	-	
Texas.....	7,971	520	951	820	4,316	1,884	3,572	3,494	936	11	-	
Mountain:	3,849	319	742	638	1,304	1,166	1,511	936	1,539	362	6	
Montana.....	307	382	62	46	118	81	131	54	49	114	-	
Idaho.....	343	351	74	65	129	75	105	41	10	121	-	
Wyoming.....	381	748	41	34	226	80	183	93	335	9	-	
Colorado.....	847	276	203	190	195	259	323	231	274	17	6	
New Mexico.....	465	340	60	68	162	175	197	210	226	1	-	
Arizona.....	740	256	143	137	198	261	291	139	339	73	-	
Utah.....	477	303	95	66	193	122	169	121	161	11	-	
Nevada.....	290	331	63	32	82	113	133	46	146	15	-	
Pacific:	8,950	271	1,817	1,546	2,523	3,064	4,135	2,163	163	1,978	134	
Washington.....	1,594	366	392	284	527	381	562	112	75	972	40	
Oregon.....	844	316	195	140	259	251	364	73	12	474	53	
California.....	5,913	239	1,170	1,084	1,431	2,228	2,840	1,731	71	526	41	
Alaska.....	411	926	39	41	229	102	155	244	6	6	-	
Hawaii.....	218	219	22	18	77	102	214	3	-	1	-	

- Represents zero. Z Less than 500 billion.

¹ For source, includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately.² Based on estimated resident population as of July 1.³ Includes

—23 trillion Btu of net imports of coke not allocated by State.

⁴ Minus sign (-) indicates when amount of energy expended for

pump storage hydropower exceeds amount of energy consumed.

Source: U.S. Energy Information Administration, *State Energy Data Report*, annual.

NO. 954. PRIMARY ENERGY CONSUMPTION BY CONSUMING SECTOR: 1960 TO 1983

[For definition of Btu, see text, p. 551]

SECTOR	1960	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.
Total consumption (quad. Btu).....	43.7	66.4	72.5	70.5	74.3	76.2	78.0	78.8	75.9	73.9	70.8	70.5
Residential and commercial.....	8.7	12.1	11.8	11.6	12.3	11.9	11.9	11.5	10.7	10.1	10.1	9.6
Industrial and miscellaneous.....	16.2	21.9	22.6	20.3	21.4	21.8	21.8	22.7	21.0	18.7	17.4	16.9
Transportation.....	10.6	16.0	18.1	18.2	19.1	19.8	20.6	20.4	19.7	19.5	19.0	19.0
Electricity generation.....	8.2	16.3	20.0	20.4	21.6	22.7	23.7	24.1	24.5	24.8	24.3	25.0
Percent of total:												
Residential and commercial.....	20.0	18.3	16.2	16.5	16.5	15.6	15.3	14.6	14.1	13.6	14.2	13.6
Industrial and miscellaneous.....	37.0	32.9	31.1	28.8	28.8	28.6	28.0	28.8	27.7	26.6	24.6	24.0
Transportation.....	24.1	24.2	24.9	25.8	25.6	25.9	26.3	25.9	25.9	26.3	26.9	26.9
Electricity generation.....	18.8	24.5	27.6	28.9	29.0	29.8	30.4	30.6	32.3	33.5	34.3	35.4

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 955. ENERGY CONSUMPTION, BY SECTOR AND PRIMARY SOURCE: 1983

[In trillions of Btu. For definition of Btu, see text, p. 551]

SECTOR	Total ¹	Coal ²	Natural gas, dry	Petroleum ³	Hydroelectric ⁴	Nuclear power	Other ⁵	Electricity distributed ⁶	Electric energy loss ⁷
Final consuming sectors.....	70,658	2,650	14,459	28,532	33	-	-16	7,341	17,657
Residential and commercial.....	25,725	192	7,244	2,345	-	-	-	4,683	11,281
Industrial.....	25,892	2,458	6,838	7,759	33	-	-16	2,648	6,372
Transportation.....	19,040	-	577	18,428	-	-	-	10	24
Electric utilities.....	24,998	13,226	3,011	1,544	3,847	3,235	135	(x)	(x)

- Represents zero. X Not applicable. ¹Total may not equal sum of components due to independent rounding of the components. ²Represents anthracite, bituminous, and lignite. ³Includes petroleum products, still gas, liquefied refinery gas, and natural gas liquids. ⁴Includes net imports of electricity. ⁵Includes geothermal power, electricity produced from wood and waste, and net imports of coal coke. ⁶Electrical energy used by railroads, and for street and highway lighting, is included in transportation sector. ⁷Losses allocated by final end-use sector in proportion to their direct kilowatt-hour usage.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, May 1984.

NO. 956. ENERGY EXPENDITURES AND AVERAGE FUEL PRICES, BY SOURCE AND END-USE SECTOR: 1970 TO 1981

[Btu=British thermal units; see text, p. 551. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal]

SOURCE AND END-USE SECTOR	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
EXPENDITURES (mil. dol.)											
Total ^{1 2}	84,297	99,969	114,413	158,362	177,817	200,368	228,178	247,205	306,677	386,904	456,873
Coal.....	4,592	5,522	6,701	13,895	14,287	14,246	15,886	18,323	20,021	22,029	25,690
Natural gas.....	11,462	13,865	14,652	17,462	21,573	27,343	32,105	34,926	43,846	54,550	64,127
Petroleum products ²	48,889	58,863	66,905	100,604	107,660	119,450	135,946	143,494	189,988	246,559	290,723
Motor gasoline.....	31,595	35,342	38,675	54,127	59,446	64,459	70,047	74,403	95,167	123,310	137,115
Distillate fuel oil.....	6,127	7,443	9,412	15,174	15,657	18,372	21,974	23,647	32,462	40,803	49,263
Jet fuel.....	1,539	1,767	2,129	3,414	4,465	4,854	5,859	6,594	9,165	14,837	15,636
Residual fuel.....	2,164	3,710	5,055	10,960	10,788	12,139	14,960	14,207	18,324	22,442	23,608
Electricity sales.....	23,701	30,117	34,173	43,114	51,331	57,866	67,390	75,691	82,617	99,763	117,869
Residential sector ²	19,922	24,057	26,987	32,537	36,874	41,761	47,686	51,861	57,560	66,921	77,814
Natural gas.....	5,294	6,239	6,259	6,977	8,407	9,996	11,351	12,476	14,708	17,507	19,545
Petroleum.....	4,159	4,804	5,863	7,389	7,577	8,856	9,882	10,017	10,918	12,725	13,489
Electricity sales.....	10,410	13,085	14,725	17,918	20,662	22,698	26,228	29,129	31,734	36,513	44,511
Commercial sector ²	10,798	13,552	15,311	19,660	23,134	26,703	30,967	34,139	38,346	47,453	56,500
Electricity sales.....	7,415	9,529	10,845	13,536	16,359	18,430	21,346	23,788	25,004	30,995	37,975
Industrial sector ²	18,017	21,951	25,858	41,443	46,510	54,018	63,251	68,699	87,715	106,764	139,099
Natural gas.....	3,168	3,978	4,849	6,001	7,342	9,694	11,458	11,954	15,243	19,847	24,026
Petroleum.....	6,895	8,252	10,160	19,001	19,325	22,215	26,836	28,057	40,530	51,292	73,747
Electricity sales.....	5,839	7,456	8,548	11,570	14,198	16,622	19,698	22,670	25,748	30,115	35,170
Transportation sector ²	35,562	40,368	46,158	64,721	71,300	77,886	86,264	92,506	123,058	163,764	183,909
Motor gasoline.....	30,524	34,361	38,605	52,755	57,992	62,975	68,529	72,904	93,285	120,744	134,392
Electric utilities ²	4,320	6,479	8,209	17,133	17,556	19,079	23,933	26,611	30,669	37,102	43,820
Coal.....	2,240	2,975	3,875	8,766	8,304	8,401	10,266	12,285	13,709	16,082	19,358
Natural gas.....	1,148	1,354	1,299	1,735	2,436	3,256	4,199	4,672	6,281	8,942	10,497
Petroleum.....	866	2,043	2,837	6,359	6,347	6,881	8,702	8,672	10,048	11,441	11,928
AVERAGE FUEL PRICES (dol. per mil. Btu)											
Residential sector.....	2.10	2.38	2.73	3.40	3.83	4.16	4.82	5.19	6.01	7.55	8.90
Commercial sector.....	1.97	2.34	2.59	3.44	4.12	4.46	5.21	5.64	6.23	7.96	9.64
Industrial sector.....	.74	.88	.99	1.65	2.04	2.24	2.57	2.79	3.42	4.48	5.81
Transportation sector.....	2.32	2.39	2.58	3.72	4.05	4.21	4.49	4.62	6.21	8.62	9.78
Electric utilities.....	.32	.42	.49	1.03	1.03	1.03	1.19	1.29	1.48	1.74	2.00

¹ Includes electricity sales; excludes electricity generation.² Includes sources or fuel types not shown separately.Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report, 1970-1981*.

No. 957. ENERGY EXPENDITURES—SOURCE AND END-USE SECTOR, BY STATE: 1981

(In millions of dollars, except per capita. End-use sector and electric utilities exclude expenditures on energy sources such as hydropower, solar, wind, and geothermal)

DIVISION AND STATE	Total ¹	Per capita ² (dol.)	SOURCE					END-USE SECTOR					Electric utilities
			Petroleum products		Natural gas	Coal	Electricity sales	Residential	Commercial	Industrial	Transportation		
			Total	Gasoline									
U.S.	456,873	1,991	290,723	137,115	64,127	25,990	117,869	77,814	56,050	139,099	183,908	43,200	
N. Eng:													
ME.....	2,031	1,793	1,609	659	14	9	525	518	243	434	834	165	
NH.....	1,525	1,628	1,063	536	54	42	525	466	189	269	601	159	
VT.....	839	1,626	591	322	28	2	220	247	101	121	370	25	
MA.....	9,674	1,680	6,818	2,981	1,094	65	2,997	2,711	1,942	1,354	3,667	1,321	
RI.....	1,427	1,499	861	492	172	-	441	408	232	237	549	48	
CT.....	5,485	1,756	3,840	1,779	461	2	1,823	1,677	951	876	1,981	704	
Mid. Atl:													
NY.....	26,957	1,535	16,228	7,561	3,614	590	9,299	6,927	6,508	4,080	9,443	2,857	
PA.....	16,024	2,163	10,592	4,122	2,002	156	4,159	3,602	2,589	4,040	5,793	927	
NJ.....	21,839	1,839	12,296	5,937	3,083	2,629	5,916	4,864	2,398	7,058	7,519	2,171	
E. No. Cent:													
OH.....	21,649	2,005	11,934	6,135	3,146	2,758	5,670	4,024	2,364	7,829	7,631	1,880	
IN.....	12,157	2,215	6,776	3,492	1,649	2,009	2,801	1,936	875	4,841	4,505	1,077	
IL.....	21,775	1,899	12,311	6,133	4,052	1,481	5,709	4,144	3,327	6,435	7,869	1,909	
MI.....	15,591	1,693	8,423	5,441	2,965	1,376	4,074	3,284	2,001	3,995	6,311	1,340	
WI.....	7,692	1,624	4,291	2,672	1,367	535	1,965	1,785	986	1,751	3,170	538	
W. No. Cent:													
MN.....	7,143	1,737	4,425	2,547	957	302	1,732	1,467	637	1,895	3,144	325	
IA.....	5,518	1,892	3,198	1,961	848	383	1,426	1,128	660	1,502	2,229	353	
MO.....	8,258	1,672	5,077	3,152	1,038	732	2,112	1,621	987	1,763	3,886	701	
ND.....	1,579	2,389	1,182	535	105	136	271	257	125	487	710	116	
SD.....	1,214	1,754	875	516	80	38	253	245	111	253	604	33	
NE.....	2,797	1,729	1,698	1,056	422	117	620	489	375	578	1,296	152	
KS.....	5,360	2,254	3,329	1,555	1,079	253	1,163	729	568	1,966	2,097	444	
So. Atl:													
DE.....	1,473	2,471	1,171	406	133	101	359	242	229	478	524	291	
MD.....	7,261	1,705	4,467	2,566	782	398	2,104	1,586	926	1,545	3,203	549	
DC.....	932	1,475	382	235	155	6	416	167	283	180	303	28	
VA.....	9,248	1,701	5,995	3,443	511	501	2,787	1,913	1,272	1,371	4,692	659	
WV.....	3,634	1,854	1,997	1,101	503	1,453	897	613	334	1,289	1,398	1,216	
NC.....	9,803	1,645	6,003	3,813	688	1,140	3,051	2,029	1,019	2,144	4,811	1,105	
SC.....	5,426	1,703	3,139	2,026	564	489	1,712	949	527	1,461	2,489	555	
GA.....	9,905	1,777	6,233	3,816	1,213	928	2,467	1,537	1,019	2,012	5,337	966	
FL.....	1,760	1,744	12,952	6,983	879	472	6,556	3,718	2,619	2,196	9,226	3,158	
E. So. Cent:													
KY.....	7,075	1,925	4,283	2,243	592	1,021	2,072	1,079	540	2,484	2,972	894	
TN.....	8,959	1,935	5,008	3,111	684	955	3,154	1,335	1,065	2,552	4,008	864	
AL.....	8,658	2,205	4,999	2,508	888	1,192	2,471	1,221	746	3,393	3,297	1,005	
MS.....	5,160	2,025	3,437	1,635	641	189	1,348	755	587	1,653	2,185	455	
W. So. Cent:													
AR.....	4,674	2,032	2,952	1,481	731	160	1,147	702	385	1,591	1,995	381	
LA.....	19,980	4,647	14,788	2,803	3,721	48	2,763	1,407	1,466	12,208	4,999	1,340	
OK.....	6,761	2,180	4,530	2,347	1,466	224	1,318	686	675	2,287	3,114	776	
TX.....	52,679	3,575	35,729	10,067	10,534	1,260	9,811	4,679	4,015	28,711	15,274	4,656	
Mt:													
MT.....	1,928	2,422	1,466	593	201	39	260	200	159	764	805	39	
ID.....	1,599	1,659	959	607	172	21	447	232	167	433	747	-	
WY.....	2,236	4,535	1,785	478	173	247	237	130	97	1,217	792	206	
CO.....	5,017	1,682	2,791	1,898	797	310	1,201	686	739	993	2,399	284	
NM.....	2,895	2,170	2,060	958	453	140	535	292	337	776	1,492	303	
AZ.....	4,697	1,673	2,686	1,717	516	355	1,628	787	677	841	2,392	487	
UT.....	2,772	1,819	1,806	880	284	260	575	412	171	976	1,213	154	
NV.....	1,947	2,188	1,238	681	265	126	487	261	173	287	1,116	269	
Pac:													
WA.....	7,403	1,748	5,349	2,482	610	119	1,417	1,017	659	2,023	3,704	105	
OR.....	4,472	1,676	2,982	1,685	362	45	1,116	726	505	905	2,336	68	
CA.....	42,551	1,757	28,832	14,845	7,243	164	10,915	5,315	6,148	9,919	21,168	4,628	
AK.....	1,461	3,512	1,266	272	88	11	151	136	110	333	881	55	
HI.....	2,167	2,209	1,818	471	47	-	761	273	229	536	1,130	460	

- Represents zero. ¹ Includes sources not shown separately.² Based on estimated resident population as of July 1.³ Includes net imports of coal coke not shown separately by State.Source: U.S. Energy Information Administration, *Energy Price and Expenditure Report, 1970-1981*.

**NO. 958. RESIDENTIAL ENERGY CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, 1979 TO 1982,
AND BY REGION, 1982**

[For period April to March of year stated. Excludes Alaska and Hawaii. Covers year-round occupied units only. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Excludes household usage of gasoline for transportation and the use of wood or coal. Btu = British thermal unit; see text, p. 551]

TYPE OF FUEL	Unit	1979, all house- holds	1980, all house- holds	1981, all house- holds	1982				
					All house- holds	North- east	Mid- west	South	West
CONSUMPTION									
Total.....	Quad. Btu.....	10.56	9.74	9.32	9.51	2.47	3.12	2.46	1.47
Average per household.....	Mil. Btu.....	138	126	114	114	138	147	89	90
Natural gas.....	Quad. Btu.....	5.58	5.31	4.94	5.39	1.06	2.24	1.16	.93
Electricity.....	Quad. Btu.....	2.47	2.42	2.46	2.48	.42	.57	1.03	.46
Fuel oil, kerosene.....	Quad. Btu.....	2.19	1.71	1.55	1.33	.96	.17	1.16	.03
Liquid petroleum gas.....	Quad. Btu.....	.33	.31	.36	.31	.03	.13	.12	.04
EXPENDITURES									
Total.....	Bil. dol.....	55.5	63.2	74.8	85.0	25.6	22.1	25.5	11.7
Average per household.....	Dollars.....	724	815	917	1,022	1,426	1,042	922	721
Natural gas.....	Bil. dol.....	15.3	17.8	19.3	24.5	6.1	9.3	5.3	3.6
Electricity.....	Bil. dol.....	29.9	32.6	40.1	45.9	10.6	10.3	17.7	7.4
Fuel oil, kerosene.....	Bil. dol.....	8.6	10.7	12.5	11.8	8.6	1.5	1.4	.3
Liquid petroleum gas.....	Bil. dol.....	1.7	2.1	2.9	2.7	.3	1.0	1.1	.3
AVERAGE PRICE (per million Btu)									
Total.....	Dollars.....	5.25	6.49	8.03	8.93	10.36	7.10	10.37	8.00
Natural gas.....	Dollars.....	2.74	3.36	3.90	4.55	5.78	4.16	4.59	4.01
Electricity.....	Dollars.....	12.10	13.46	16.32	18.51	25.23	17.93	17.23	15.98
Fuel oil, kerosene.....	Dollars.....	3.93	6.29	8.04	8.89	8.92	6.71	6.93	6.76
Liquid petroleum gas.....	Dollars.....	5.09	6.71	7.92	8.74	10.52	7.98	9.20	6.50

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, annual.

**NO. 959. RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES, BY TYPE OF FUEL AND SELECTED
HOUSEHOLD CHARACTERISTIC: 1982**

[For period April 1981 to March 1982. Quad.=quadrillion. See headnote, table 958]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total ¹ (quad.)	Avg. per house- hold ¹ (mil.)	Nat- ural gas (quad.)	Elec- tricity (quad.)	Fuel oil ² (quad.)	Total ¹ (bil. dol.)	Avg. per house- hold ¹ (dol.)	Nat- ural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil ² (bil. dol.)
Total households.....	9.51	114	5.39	2.48	1.33	85.0	1,022	24.5	45.9	11.8
Single family detached.....	6.92	127	4.06	1.81	.80	59.4	1,088	17.7	32.5	7.1
Single family attached.....	.32	107	.19	.07	.06	3.1	1,015	1.0	1.5	.5
2-4 unit building.....	1.01	108	.62	.20	.19	9.0	969	3.2	4.1	1.7
5 or more unit building.....	.92	77	.41	.27	.25	10.0	827	2.1	5.6	2.2
Mobile home.....	.34	80	.12	.13	.04	3.5	843	.5	2.2	.3
Year house built:										
1939 or earlier.....	3.23	134	1.95	.53	.61	26.4	1,091	9.2	10.6	5.5
1940-1949.....	.79	113	.47	.18	.11	6.7	964	2.1	3.4	1.0
1950-1959.....	1.62	120	1.00	.37	.24	13.4	998	4.3	6.9	2.1
1960-1964.....	.92	120	.55	.23	.10	8.1	1,061	2.5	4.4	.9
1965-1969.....	.92	109	.52	.27	.11	8.7	1,023	2.4	5.1	.9
1970-1974.....	1.05	98	.49	.40	.11	10.6	995	2.2	7.0	1.0
1975-1978.....	.69	90	.30	.33	.04	7.6	977	1.3	5.7	.3
1979 or later.....	.30	74	.11	.17	.01	3.5	886	.5	2.8	.1
Heating and cooling degree day zones:³										
Less than 2,000 CDD and—										
More than 7,000 HDD.....	1.07	122	.56	.23	.22	8.9	1,016	2.4	4.1	1.9
5,500-7,000 HDD.....	3.17	151	2.16	.55	.38	24.2	1,156	9.5	10.6	3.5
4,000-5,499 HDD.....	2.59	120	1.24	.64	.65	24.9	1,152	6.4	12.2	5.7
Less than 4,000 HDD.....	1.74	89	1.02	.59	.06	15.6	799	4.2	10.3	.6
More than 2,000 CDD and less than 4,000 HDD.....	.94	77	.42	.46	.02	11.3	925	2.0	8.7	.2
1980 family income:										
Less than \$5,000.....	.85	87	.50	.20	.11	7.5	766	2.3	3.8	1.0
\$5,000-\$9,999.....	1.41	105	.80	.32	.23	12.3	908	3.7	6.0	2.0
\$10,000-\$14,999.....	1.35	108	.75	.34	.22	12.0	956	3.4	6.2	1.9
\$15,000-\$19,999.....	1.14	107	.61	.33	.15	10.5	986	2.8	6.0	1.3
\$20,000-\$24,999.....	1.23	114	.67	.34	.17	11.2	1,043	3.1	6.2	1.5
\$25,000-\$34,999.....	1.66	125	.99	.45	.19	14.7	1,106	4.4	8.3	1.7
\$35,000 and over.....	1.87	148	1.07	.50	.26	16.8	1,333	4.8	9.4	2.3

¹ Includes liquid petroleum gas, not shown separately.

² Includes kerosene.

³ CDD=Cooling degree day; HDD=Heating degree day. See fig. 7.3, p. 216.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1981 through March 1982*.

No. 960. AVERAGE RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES OF ALL FUELS USED, BY MAIN HEATING FUEL TYPE AND HOUSEHOLD CHARACTERISTIC: 1982

[For period April 1981 to March 1982. See headnote, table 958]

HOUSEHOLD CHARACTERISTIC	CONSUMPTION PER HOUSEHOLD (mil. Btu)					EXPENDITURES PER HOUSEHOLD (dollars)				
	All households ¹	Households using as main heating fuel—				All households ¹	Households using as main heating fuel—			
		Natural	With air conditioning	With-out air conditioning	Fuel oil ²		Natural gas	With air conditioning	With-out air conditioning	Fuel oil ²
Total households	114	136	59	56	138	1,022	965	932	711	1,565
Region:										
Northeast.....	139	155	72	64	149	1,426	1,248	1,307	1,183	1,709
Midwest.....	147	187	57	61	139	1,042	1,030	841	872	1,489
South.....	89	118	57	47	103	922	932	931	727	1,228
West.....	90	103	64	57	110	721	726	773	539	941
Type:										
Single-family detached.....	127	150	70	71	144	1,088	1,043	1,082	855	1,635
Single-family attached.....	107	121	53	56	136	1,015	945	865	569	1,531
2-4 unit building.....	108	117	53	43	144	969	864	793	577	1,595
5 or more unit building.....	77	83	47	38	129	827	627	803	543	1,493
Mobile home.....	80	110	54	53	82	843	800	810	624	1,006
Year house built:										
1939 or earlier.....	134	150	59	57	149	1,091	981	846	633	1,647
1940 to 1949.....	113	127	74	61	125	964	895	1,032	682	1,421
1950 to 1959.....	120	134	57	60	135	998	930	900	679	1,532
1960 to 1969.....	120	140	56	53	128	1,061	1,048	829	531	1,524
1965 to 1969.....	109	131	58	56	131	1,023	1,008	894	710	1,583
1970 to 1974.....	98	125	61	51	127	995	936	980	700	1,504
1975 to 1978.....	90	126	64	57	112	977	987	1,020	697	1,374
1979 or later.....	74	110	50	60	125	866	850	829	904	1,458
1980 family income:										
Less than \$5,000.....	87	107	47	38	117	766	717	798	498	1,288
\$5,000-\$9,999.....	105	125	50	53	126	906	837	781	608	1,396
\$10,000-\$14,999.....	108	128	55	52	131	959	883	846	616	1,470
\$15,000-\$19,999.....	107	131	57	62	131	886	921	928	933	1,500
\$20,000-\$24,999.....	114	136	56	58	143	1,043	967	906	808	1,639
\$25,000-\$34,999.....	125	145	71	70	137	1,106	1,057	1,071	862	1,681
\$35,000 or more.....	148	168	75	72	177	1,333	1,247	1,159	838	2,061

¹ Includes households using liquid petroleum gas, not shown separately. ² Includes kerosene.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1981 through March 1982*.

No. 961. FOSSIL FUEL PRICES IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1983

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, p. 551, for explanation of Btu conversions from mineral fuels. Minus sign (—) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS					CONSTANT (1972) DOLLARS					GNP ³ price deflators (1972=100)
	Com-posite ¹	Crude oil	Natural gas	Bitumi-nous coal ²	Anthra-cite coal	Com-posite ¹	Crude oil	Natural gas	Bitumi-nous coal ²	Anthra-cite coal	
1960.....	28.4	49.7	12.6	18.9	33.0	41.3	72.3	18.3	27.5	48.0	68.7
1965.....	27.8	49.3	14.5	18.0	35.3	37.4	66.3	19.5	24.2	47.5	74.4
1970.....	31.8	54.8	15.4	26.4	47.1	34.8	59.9	19.8	28.9	51.5	91.5
1972.....	35.1	58.4	17.3	32.9	52.9	35.1	58.4	17.3	31.5	52.9	100.0
1973.....	39.9	67.1	20.1	36.7	58.9	37.7	63.5	19.9	34.7	55.7	105.8
1974.....	67.7	118.4	27.3	68.8	96.4	68.8	102.9	23.7	59.6	85.5	115.1
1975.....	82.6	132.2	41.1	84.9	137.9	65.7	105.1	22.7	67.0	109.6	125.8
1976.....	90.2	141.2	53.1	85.0	149.0	68.2	106.7	40.1	64.2	112.8	132.3
1977.....	100.9	147.8	72.3	88.2	150.4	72.0	105.5	51.6	63.0	107.4	140.1
1978.....	111.7	155.2	83.6	98.3	149.9	74.3	103.2	55.6	65.4	99.7	150.4
1979.....	141.8	217.9	108.1	105.7	174.1	86.8	133.3	66.1	64.7	106.5	183.4
1980.....	204.3	372.2	144.8	109.7	182.1	114.5	208.7	81.2	61.5	102.1	178.4
1981.....	274.7	547.8	179.5	118.2	186.9	140.8	280.7	92.0	60.6	95.8	195.1
1982.....	275.9	491.7	222.2	122.9	210.4	133.4	237.7	107.4	59.1	101.7	206.9
1983, preli.....	273.4	449.5	234.8	127.2	223.2	126.8	208.4	108.9	59.0	103.5	215.7
Percent change:											
1960-70.....	12.0	10.3	22.2	38.6	42.7	-15.7	-17.2	-8.2	5.1	7.3	33.2
1970-73.....	25.5	22.4	30.5	39.0	25.1	8.3	6.0	11.3	20.1	8.2	15.6
1973-75.....	107.0	97.0	104.4	128.7	134.1	74.3	65.5	73.0	93.1	96.8	18.9
1975-79.....	71.7	64.8	163.0	25.4	26.3	32.1	26.8	102.1	-3.4	-2.8	29.9
1979-80.....	44.1	70.8	34.0	3.8	4.8	31.9	56.6	22.8	-4.9	-4.1	9.2
1980-81.....	34.5	11.3	24.0	7.7	2.8	23.0	34.5	13.9	-1.5	-6.2	9.4
1981-82.....	-4	-10.2	23.8	3.5	12.6	-5.3	-15.3	18.7	-2.6	6.2	6.0
1982-83, preli.....	-9.8	-6.6	5.7	4.0	6.1	-4.9	-12.3	1.4	-2	1.8	4.3

¹ Weighted by relative importance of individual fuels in total fuels production. ² Includes lignite. ³ GNP=Gross national product; see text, p. 465.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 962. WORLD ENERGY CONSUMPTION, BY REGION AND ENERGY SOURCE: 1960 TO 1980

[In tons of coal equivalent. Metric ton=1.1023 short tons. See text, p. 836, for general comments about the data]

REGION AND ENERGY SOURCE	CONSUMPTION (mil. metric tons)									PERCENT DISTRIBUTION		
	1960	1965	1970	1975	1976	1977	1978	1979	1980	1960	1970	1980
World total.....	3,970	4,971	6,430	7,462	7,872	8,076	8,318	8,634	8,548	100.0	100.0	100.0
United States.....	1,477	1,783	2,227	2,284	2,378	2,406	2,428	2,470	2,370	37.2	34.6	27.7
Western Europe.....	783	1,003	1,295	1,407	1,502	1,482	1,516	1,619	1,559	19.7	20.1	18.2
Japan.....	109	178	317	354	407	413	419	431	431	2.7	4.9	5.0
Centrally planned economies ¹	1,201	1,444	1,783	2,292	2,400	2,522	2,630	2,715	2,745	30.3	27.7	32.1
Rest of world.....	400	563	808	1,125	1,185	1,253	1,325	1,399	1,443	10.1	12.6	16.9
Energy source:												
Solid fuels.....	1,981	2,070	2,184	2,309	2,398	2,448	2,491	2,637	2,669	49.9	34.0	31.2
Liquid fuels.....	1,311	1,902	2,798	3,374	3,803	3,716	3,800	3,867	3,709	33.0	43.5	43.4
Natural gas.....	593	882	1,293	1,556	1,640	1,663	1,754	1,842	1,871	14.9	20.1	21.9
Electricity.....	85	116	155	223	231	248	274	288	300	2.1	2.4	3.5

¹ Includes China, Dem. People's Rep. of Korea, Mongolia, Vietnam, Albania, Bulgaria, Czechoslovakia, German Dem. Rep., Hungary, Poland, Romania, and Soviet Union.

Source: Statistical Office of the United Nations, New York, NY, *Yearbook of World Energy Statistics*. (Copyright.)

NO. 963. WORLD PRIMARY ENERGY PRODUCTION, BY REGION AND TYPE: 1973 TO 1982

[In quadrillion Btu. Btu=British thermal units. For Btu conversion factors, see source]

REGION AND TYPE	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982, prel.
World total.....	246.3	250.4	247.5	261.8	270.5	276.0	290.4	289.1	283.4	281.2
North America.....	73.8	72.7	71.3	71.5	72.5	74.2	78.3	80.7	81.0	81.4
United States.....	62.4	61.2	60.0	60.0	60.2	61.2	63.8	64.7	64.3	63.6
Central and South America.....	12.9	12.1	10.6	10.8	11.0	11.4	12.4	12.1	12.0	11.7
Western Europe.....	19.6	20.0	21.4	22.3	23.9	24.8	27.4	28.7	29.9	30.6
Eastern Europe and U.S.S.R.....	51.4	54.2	56.5	59.5	62.2	64.6	66.8	68.7	68.9	71.4
Middle East.....	46.6	48.3	43.6	49.2	49.8	47.2	48.4	41.7	35.9	29.2
Africa.....	14.8	13.9	13.2	15.4	16.4	16.5	18.1	17.5	14.9	14.8
Far East and Oceania.....	27.3	29.2	30.9	33.2	34.6	37.3	39.1	39.7	40.8	42.1
Crude oil.....	117.8	118.1	111.6	121.3	126.0	126.3	131.5	125.5	117.5	111.6
Natural gas.....	43.2	44.0	43.9	45.8	47.1	48.5	51.7	53.3	53.6	52.8
Natural gas liquids.....	4.2	4.4	4.4	4.5	4.7	4.8	5.2	5.5	5.9	5.8
Coal.....	65.3	66.3	68.7	70.7	71.8	73.2	77.7	79.2	79.3	82.5
Hydroelectric power.....	13.5	14.8	15.0	15.1	15.5	16.7	17.6	18.2	18.4	19.2
Nuclear.....	2.2	2.9	3.9	4.5	5.4	6.5	6.7	7.5	8.6	9.3

Source: U.S. Energy Information Administration, *International Energy Annual*.

NO. 964. DAILY INTERNATIONAL FLOW OF CRUDE OIL, BY AREA: 1981

[In thousands of barrels per day]

EXPORTING AREA	Total	IMPORTING AREA								
		North America		Central and South America	Western Europe		East- ern Europe	Middle East and Africa	Japan	Other Far East and Oceania
		U.S.	Canada		Atlantic Ocean, North Sea	Mediterranean Sea				
World total.....	27,792	4,397	509	2,738	5,702	4,504	1,835	1,267	3,921	2,918
North America.....	1,490	633	97	405	70	213	-	-	72	-
United States.....	228	(x)	45	183	-	-	-	-	-	-
Central and South America.....	1,587	333	140	686	103	170	2	17	81	55
Western Europe.....	1,458	483	35	50	889	18	-	-	3	-
U.S.S.R.....	2,400	-	-	100	340	330	1,510	32	2	85
Middle East.....	14,464	1,226	204	915	3,328	2,706	248	1,091	2,690	2,056
Africa.....	4,200	1,371	33	441	972	1,047	75	72	92	97
Far East and Oceania.....	2,192	351	-	141	20	20	-	55	980	625

- Represents zero. X Not applicable.

¹ Includes shipments to Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, *International Energy Annual*.

No. 965. U.S. FOREIGN TRADE IN SELECTED MINERAL FUELS: 1960 TO 1983

[Btu=British thermal units. For Btu conversion factors, see text, p. 551. Minus sign (—) indicates an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

YEAR	NATURAL GAS						CRUDE OIL					
	Imports		Exports		Net trade		Imports ¹		Exports		Net trade	
	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1960.....	155.6	161	11.3	12	-144.3	-149	372	2,196	3	18	-369	-2,178
1965.....	456.4	471	26.1	27	-430.3	-444	452	2,654	1	6	-451	-2,648
1969.....	820.8	846	59.8	72	-751.0	-774	483	2,814	5	28	-478	-2,785
1971.....	934.5	964	80.2	83	-854.3	-881	619	2,773	1	3	-612	-3,570
1972.....	1,019.5	1,047	78.0	80	-941.5	-967	811	4,712	(2)	1	-811	-4,710
1973.....	1,032.9	1,060	77.2	79	-955.7	-981	1,184	6,887	1	4	-1,183	-6,883
1974.....	959.3	965	76.8	78	-882.5	-907	1,289	7,395	1	6	-1,288	-7,389
1976.....	953.0	978	72.7	74	-880.3	-904	1,498	8,721	2	12	-1,496	-8,709
1976.....	963.8	988	64.7	66	-899.1	-922	1,935	11,239	3	17	-1,932	-11,221
1977.....	1,011.0	1,037	55.5	56	-955.5	-981	2,414	14,027	18	106	-2,396	-13,921
1978.....	965.5	985	52.5	53	-913.0	-941	2,320	13,460	58	335	-2,262	-13,125
1979.....	1,253.4	1,300	55.7	56	-1,197.7	-1,243	2,380	13,825	86	497	-2,294	-13,328
1980.....	984.8	1,006	48.7	49	-900.1	-957	1,926	11,195	105	609	-1,821	-10,586
1981.....	903.9	917	59.4	60	-844.5	-887	1,605	9,336	83	482	-1,522	-8,854
1982.....	933.3	950	51.7	52	-881.6	-898	1,273	7,418	86	500	-1,187	-6,916
1983, prel.....	944.0	961	55.0	56	-889.0	-905	1,215	7,076	60	348	-1,155	-6,728
	COAL						PETROLEUM PRODUCTS					
	Imports		Exports		Net trade		Imports		Exports		Net trade	
	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1960.....	262	7	37,981	1,023	33,720	1,017	283	1,802	71	413	-222	-1,389
1965.....	184	5	51,032	1,377	50,848	1,372	449	2,748	67	386	-382	-2,366
1970.....	36	1	71,793	1,936	71,637	1,935	765	4,656	89	520	-676	-4,136
1971.....	111	3	57,304	1,548	57,193	1,543	819	4,968	81	470	-738	-4,498
1972.....	47	1	56,740	1,531	56,693	1,530	924	5,587	81	467	-843	-5,120
1973.....	127	3	53,587	1,425	53,460	1,422	1,089	6,578	84	482	-1,015	-6,097
1974.....	2,080	52	60,661	1,620	58,581	1,568	962	5,731	79	458	-883	-5,273
1975.....	940	24	66,309	1,761	65,369	1,738	712	4,227	74	427	-636	-3,800
1976.....	1,203	30	60,021	1,597	58,818	1,567	741	4,434	79	452	-962	-3,982
1977.....	1,647	41	54,312	1,442	52,665	1,401	800	4,728	70	408	-730	-4,321
1978.....	2,953	74	40,714	1,078	37,761	1,004	793	4,364	74	432	-659	-3,932
1979.....	2,059	51	66,042	1,753	63,983	1,702	707	4,108	86	505	-621	-3,603
1980.....	1,194	30	91,742	2,421	90,548	2,391	803	3,463	94	551	-509	-2,912
1981.....	1,043	26	112,541	2,944	111,498	2,918	584	3,303	134	781	-450	-2,522
1982.....	742	19	106,277	2,787	105,535	2,768	593	3,359	211	1,224	-362	-2,135
1983, prel.....	1,271	32	77,772	2,045	76,501	2,013	615	3,481	210	1,218	-405	-2,263

Z Less than 500,000. ¹ Beginning 1977 includes strategic petroleum reserve imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Monthly Energy Review*, May 1984.

No. 966. CRUDE OIL IMPORTS INTO U.S., BY COUNTRY OF ORIGIN: 1970 TO 1983

COUNTRY OF ORIGIN	IMPORTS (mil. 42-gal. bbls.)												PERCENT DISTRIBUTION	
	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1970	1983
Total.....	483	1,184	1,269	1,498	1,935	2,414	2,320	2,380	1,926	1,605	1,273	1,215	100.0	100.0
Canada.....	245	365	289	219	136	102	90	99	73	60	78	100	50.7	8.2
Mexico.....	-	(2)	1	28	32	65	115	160	186	171	235	280	-	23.0
Norway.....	-	-	(2)	5	13	18	38	28	53	42	37	24	-	2.0
Trinidad-Tobago.....	(2)	22	23	42	38	48	52	45	42	37	34	30	(2)	2.5
United Kingdom.....	-	-	-	-	5	36	62	72	63	135	161	133	-	10.9
OPEC.....	222	767	926	1,171	1,683	2,058	1,892	1,866	1,414	1,067	633	540	46.0	44.4
Algeria.....	2	44	66	96	149	198	231	222	167	95	33	64	-	5.3
Ecuador.....	-	17	15	21	19	20	14	11	6	14	12	21	-	1.7
Gabon.....	-	-	9	10	10	13	14	15	9	13	14	21	-	1.7
Indonesia.....	26	73	103	138	196	185	195	139	115	116	82	115	5.4	9.5
Iran.....	12	79	169	102	109	193	202	108	3	-	13	18	2.5	1.5
Iraq.....	-	2	-	(2)	10	27	23	32	10	-	1	4	-	.3
Kuwait.....	12	15	2	1	(2)	15	2	2	10	-	1	3	2.5	.2
Libya.....	17	49	1	81	162	257	233	234	200	116	8	-	3.5	-
Nigeria.....	17	164	254	272	371	412	332	390	308	223	166	110	3.5	9.1
Qatar.....	-	3	6	7	9	24	23	11	8	3	3	-	-	-
Saudi Arabia.....	15	169	160	256	447	501	417	492	456	406	194	117	3.1	9.6
United Arab Emirates.....	23	26	25	43	93	122	141	103	63	28	30	7	4.8	.8
Venezuela.....	98	126	116	144	86	91	66	107	57	54	56	60	20.3	4.9
Other.....	16	30	30	35	48	86	71	110	95	93	95	108	3.3	8.9

- Represents zero. Z Less than 500,000 or less than .05 percent.

Source: 1970-1976, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; 1977-1980, U.S. Energy Information Administration, *Petroleum Statement*, annual; thereafter, U.S. Energy Information Administration, *Petroleum Supply Annual*.

NO. 967. CRUDE OIL AND REFINED PRODUCTS SUMMARY: 1973 TO 1984

[Barrels of 42 gallons]

YEAR AND MONTH	CRUDE OIL (1,000 bbl. per day)				REFINED OIL PRODUCTS (1,000 bbl. per day)				Total oil Im- ports ² (1,000 bbl. per day)	CRUDE OIL STOCKS ³ (mil. bbl.)	
	Input to refiner- ies	Do- mestic pro- duction	Imports		Ex- ports	Do- mestic de- mand	Im- ports	Ex- ports		Total	Strat- egic re- serve
			Total ¹	Strat- egic re- serve							
1973, avg.	12,431	9,208	3,244	(x)	2	17,308	3,012	229	6,256	242	(x)
1974, avg.	12,133	8,774	3,477	(x)	3	16,853	2,835	218	6,112	265	(x)
1975, avg.	12,442	8,375	4,105	(x)	6	16,322	1,951	204	6,056	271	(x)
1976, avg.	13,416	8,132	5,287	(x)	8	17,461	2,026	215	7,313	285	(x)
1977, avg.	14,602	8,245	6,615	21	50	18,431	2,193	193	8,807	348	7
1978, avg.	14,739	8,707	6,356	162	158	18,847	2,008	204	8,363	376	67
1979, avg.	14,648	8,552	6,519	67	235	18,513	1,937	236	8,456	430	91
1980, avg.	13,481	8,597	5,263	44	287	17,056	1,646	256	6,908	468	108
1981, avg.	12,470	8,572	4,396	258	228	16,058	1,599	367	5,996	594	230
1982, avg.	11,774	8,649	3,488	165	236	15,296	1,625	579	5,113	644	294
1983, avg.	11,685	8,688	3,329	234	164	15,231	1,722	575	5,051	723	379
1st qtr.	10,878	8,718	2,507	206	184	15,018	1,444	695	3,951	667	312
2d qtr.	11,839	8,691	3,352	228	171	14,829	1,696	640	5,047	663	332
3d qtr.	12,331	8,700	4,103	311	165	15,335	1,907	474	6,010	708	361
4th qtr.	11,673	8,646	3,332	189	140	15,729	1,835	491	5,167	723	379
1984,* avg.	12,001	8,714	3,369	193	198	15,819	2,095	517	5,463	766	414
1st qtr.	11,872	8,701	3,145	144	191	16,044	2,269	475	5,414	728	392
2d qtr.	12,133	8,728	3,585	242	204	15,579	1,928	558	5,513	766	414

X Not applicable. ¹ Includes Strategic Petroleum Reserve. ² Crude oil (including Strategic Petroleum Reserve imports) plus refined products. ³ End of year or quarter. ⁴ Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, May 1984.

NO. 968. ENERGY PRODUCING COMPANIES—SELECTED FINANCIAL AND INVESTMENT INDICATORS, 1976 TO 1982, AND BY LINE-OF-BUSINESS, 1982

[Based on data from 26 major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales]

ITEM	1976	1977	1978	1979	1980	1981	1982, prel.					
							Total ¹	Line-of-business				
								Petro- leum	Coal	Nuclear	Other en- ergy	Non- en- ergy
INCOME STATEMENT (bil. dol.)												
Operating revenues.....	243.7	266.6	294.8	392.6	518.6	575.7	549.7	485.5	5.6	.8	1.0	91.8
Operating expenses.....	219.8	239.3	265.0	345.8	455.9	520.8	504.2	415.6	5.2	.9	1.5	93.1
Operating income.....	24.0	27.3	29.8	46.8	62.7	54.8	45.5	49.9	.4	—1.	—5.	—1.4
Pretax income.....	26.0	28.2	30.2	48.6	66.9	60.0	45.2	52.6	.5	—1.	—7.	—9.
Net income.....	12.0	12.7	13.9	23.5	31.0	30.0	21.8	25.0	.4	—1.	—2.	.4
Funds from operations ²	23.7	27.3	31.2	45.4	59.0	61.8	60.4	(NA)	(NA)	(NA)	(NA)	(NA)
BALANCE SHEET (bil. dol.)												
Net property, plant, and equipment.....	111.1	125.9	138.1	159.3	188.9	224.9	265.5	193.9	8.4	1.2	3.7	53.5
Net investment in place ³	120.2	135.1	148.1	169.9	202.6	240.8	282.5	200.7	9.3	1.2	4.0	60.3
Total assets.....	196.9	217.1	237.1	282.8	333.0	372.5	411.9	(NA)	(NA)	(NA)	(NA)	(NA)
RATIOS (percent)												
Net income to operating revenues.....	4.9	4.8	4.7	6.0	6.0	5.2	4.0	5.4	7.0	—12.5	—20.0	—4
Net income to total assets.....	6.1	5.8	5.9	8.3	9.3	8.0	5.3	(NA)	(NA)	(NA)	(NA)	(NA)
Net income to stockholders' equity.....	13.1	12.6	12.8	18.6	21.1	18.1	11.9	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to stockholders' equity ⁴	38.7	38.9	35.6	33.7	31.5	32.2	37.1	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to total assets ⁴	18.0	18.0	16.3	14.9	13.9	14.3	16.6	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Includes items which cannot be allocated and adjusted for duplication, not shown separately. ² The sum of net income, depreciation, depletion and amortization, deferred taxes, dry hole expenses, etc. ³ Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. ⁴ Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers*, annual, and unpublished data.

NO. 969. PETROLEUM AND COAL PRODUCTS—SALES, NET PROFIT, AND PROFIT PER DOLLAR OF SALES: 1974 TO 1983

[Represents SIC group 29. Profit rates are averages of quarterly figures at annual rates]

ITEM	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Sales.....	Bill. dol.....	113.5	121.8	141.3	162.3	180.3	242.7	333.2	376.1	357.1	312.7
Net profit:											
Before income taxes.....	Bill. dol.....	17.7	13.3	16.9	17.8	19.2	32.2	39.1	35.3	27.8	27.1
After income taxes.....	Bill. dol.....	14.5	9.3	11.7	12.2	12.8	21.9	25.5	23.7	19.7	19.3
Depreciation ¹	Bill. dol.....	5.1	5.6	5.9	6.6	7.7	9.5	11.6	13.7	16.3	17.5
Profits per dollar of sales:											
Before income taxes.....	Cents.....	15.6	10.9	12.0	11.0	10.6	13.3	11.7	9.4	7.8	8.6
After income taxes.....	Cents.....	12.8	7.6	8.3	7.5	7.1	9.0	7.7	6.3	5.5	6.2
Profits on stockholders' equity:											
Before income taxes.....	Percent.....	25.8	17.9	20.3	19.9	19.8	30.0	30.7	25.6	18.7	17.8
After income taxes.....	Percent.....	21.1	12.5	14.1	13.6	13.3	20.4	20.0	17.2	13.2	12.7

¹ Includes depletion and accelerated amortization of emergency facilities.

 Source: Through 1981, U.S. Federal Trade Commission and, beginning 1982, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

NO. 970. MAJOR PETROLEUM COMPANIES—FINANCIAL DATA SUMMARY: 1970 TO 1983

[Data represent a composite of approximately 41 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
FINANCIAL DATA (bil. dol.)												
Net income.....	6.9	11.8	15.9	11.6	14.3	15.1	18.0	32.8	32.9	29.2	21.1	21.8
Depreciation, depletion, etc.....	7.4	10.5	13.0	11.3	14.8	18.3	19.8	24.9	32.5	34.9	37.2	39.2
Cash flow ¹	14.2	22.3	28.9	22.8	29.1	33.4	35.8	57.7	65.4	64.1	58.3	61.0
Dividends paid.....	3.8	4.0	4.5	4.7	5.4	6.3	6.8	8.0	9.3	10.6	10.6	10.9
Net internal funds available for investment or debt repayment ²	10.5	18.3	24.5	18.1	23.7	27.1	29.0	49.7	56.1	53.5	47.7	50.1
Capital and exploratory expenditures.....	13.3	16.3	25.8	26.9	30.7	31.8	37.1	51.1	62.1	79.2	67.8	55.1
Long-term capitalization.....	84.5	102.9	112.9	121.1	142.9	150.1	168.0	196.9	211.4	248.1	243.8	253.5
Long-term debt.....	18.5	22.5	25.0	28.9	39.1	38.4	45.1	48.1	49.8	59.2	62.6	63.5
Preferred stock.....	1.3	.4	.4	.4	.3	.9	.9	.9	2.0	2.0	3.5	3.5
Common stock and retained earnings ³	64.6	80.0	87.4	91.9	103.5	110.8	122.0	147.9	159.6	186.9	177.7	186.5
Excess of expenditures over cash income ⁴	2.8	-2.0	1.3	8.9	6.9	4.7	8.1	1.4	6.0	25.7	20.1	5.0
RATIOS ⁵ (percent)												
Long-term debt to long-term capitalization.....	21.9	22.0	22.2	23.8	27.4	25.6	26.8	24.4	23.6	23.6	25.7	25.0
Net income to total average capital.....	8.3	12.0	14.6	10.0	10.7	10.1	9.9	17.8	17.0	10.4	8.6	8.6
Net income to average common equity.....	10.7	15.6	19.0	13.1	14.3	13.9	13.5	24.0	22.5	17.7	11.5	12.0

¹ Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. ² Cash flow minus dividends paid. ³ Includes common stock, capital surplus, and earned surplus accounts after adjustments. ⁴ Capital and exploratory expenditures plus dividends paid minus cash flow.

⁵ Represent approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

 Source: Carl H. Pforzheimer & Co., New York, NY, *Comparative Oil Company Statements, 1982-1983*, and earlier reports.

NO. 971. ELECTRIC UTILITY PRODUCTION, 1960 TO 1983, AND PROJECTIONS, 1985 AND 1990

[1960-1983 exclude industrial facilities and railways having own generating facilities; projections include net trade and industrial facilities and railways. For explanation of average annual percent change, see Guide to Tabular Presentation]

ITEM	1960	1965	1970	1975	1980	1981	1982	1983, prel.	1985, proj.	1990, proj.
Electricity generation (bil. kWh).....	763	1,055	1,532	1,918	2,286	2,295	2,241	2,310	2,600	3,021
Average annual percent change ¹	6.7	7.0	7.7	1.5	3.6	.4	-2.3	3.1	3.5	3.1
Per capita ² kWh (1,000).....	4.2	5.5	7.5	9.0	10.1	10.0	9.7	9.9	(NA)	(NA)
Peak load net capability, summer (mil. kW).....	138	189	276	345	430	433	418	451	480	552
Average annual percent change ¹	7.1	6.5	7.9	1.6	6.7	.2	-3.5	7.9	3.2	15.0

 NA Not available. ¹ Change from prior year shown; for 1960, change from 1955. ² Based on U.S. Bureau of the Census estimated resident population as of July 1.

 Source: 1960-1975, U.S. Federal Power Commission, unpublished data; 1980, U.S. Energy Information Administration, *Electric Energy and Peak Load*, annual; thereafter, *Electric Power Annual*.

NO. 972. ELECTRIC UTILITY INDUSTRY—ELECTRIC ENERGY PRODUCTION AND INSTALLED GENERATING CAPACITY, BY TYPE OF PRIME MOVER AND CONSUMPTION OF FUELS: 1960 TO 1983

[Production for calendar years; other data as of December 31, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 78-82, and S 86-107]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
PRODUCTION											
Total.....	Bil. kWh.....	753	1,055	1,532	1,918	2,206	2,247	2,286	2,295	2,241	2,310
Average annual change ¹	Percent.....	6.6	7.0	7.8	4.6	4.8	1.9	1.7	.4	-2.4	3.1
Production, kWh per kW of capacity.....	Number.....	4,482	4,470	4,480	3,776	3,810	3,758	3,723	3,614	3,448	3,511
Privately owned.....	Bil. kWh.....	579	809	1,183	1,487	1,721	1,756	1,783	1,786	1,712	1,764
Percent of total utilities.....	Percent.....	76.8	76.7	77.2	77.5	78.0	78.1	78.0	77.0	76.4	76.4
Publicly owned.....	Bil. kWh.....	175	246	349	431	485	491	503	509	530	546
Municipal.....	Bil. kWh.....	37	50	71	82	90	87	87	81	77	73
Federal.....	Bil. kWh.....	112	145	186	221	235	236	235	232	241	258
Cooperatives and other.....	Bil. kWh.....	26	51	91	128	160	168	182	196	212	215
Source of energy:											
Coal ²	Percent.....	53.5	54.1	46.2	44.7	44.4	48.1	51.1	52.7	53.4	54.8
Nuclear.....	Percent.....	.1	.4	1.4	9.0	12.5	11.4	11.0	11.9	12.6	12.7
Oil.....	Percent.....	6.1	6.1	11.9	15.1	16.5	13.5	10.7	9.0	6.5	6.2
Gas.....	Percent.....	21.0	21.0	24.3	15.6	13.8	14.7	15.1	15.1	13.6	11.9
Hydro.....	Percent.....	19.3	18.4	16.2	15.6	12.7	12.4	12.1	11.4	13.8	14.4
INSTALLED CAPACITY											
Total.....	Mil. kW.....	168	236	342	508	579	598	614	635	650	658
Average annual change ¹	Percent.....	8.1	7.0	7.7	8.2	4.5	3.3	2.7	3.4	2.4	1.2
Privately owned.....	Mil. kW.....	128	178	263	399	454	464	477	491	499	505
Percent of total utilities.....	Percent.....	76.5	76.2	76.9	78.5	78.3	77.6	77.7	77.3	76.8	76.8
Publicly owned.....	Mil. kW.....	40	59	79	109	126	134	137	144	151	153
Municipal.....	Mil. kW.....	11	15	21	29	34	34	35	35	36	37
Federal.....	Mil. kW.....	22	32	39	50	54	58	59	61	63	63
Cooperatives and other.....	Mil. kW.....	6	11	19	30	37	42	43	48	52	53
TYPE OF PRIME MOVER ³											
Prime movers, total ⁴	Number.....	3,435	3,290	3,533	3,587	3,586	3,573	3,575	3,567	3,515	3,486
Hydro.....	Number.....	1,331	1,231	1,188	1,146	1,146	1,145	1,142	1,147	1,168	1,182
Steam conventional.....	Number.....	1,055	1,059	998	937	922	925	934	937	916	910
Gas turbine.....	Number.....	5	9	16	42	50	51	51	53	54	54
Steam nuclear.....	Number.....	1,044	991	1,008	985	939	915	907	890	837	797
Internal combustion.....	Number.....	1,044	991	1,008	985	939	915	907	890	837	797
Production.....	Bil. kWh.....	753	1,055	1,532	1,918	2,206	2,247	2,286	2,295	2,241	2,310
Hydro.....	Bil. kWh.....	146	194	248	300	280	280	276	261	309	332
Steam conventional.....	Bil. kWh.....	602	852	1,241	1,417	1,613	1,680	1,731	1,736	1,633	1,688
Gas turbine.....	Bil. kWh.....	1	4	22	173	276	255	251	273	283	294
Steam nuclear.....	Bil. kWh.....	4	5	6	6	5	4	4	3	2	2
Internal combustion.....	Bil. kWh.....	4	5	6	6	5	4	4	3	2	2
Installed capacity.....	Mil. kW.....	168	236	342	508	579	598	614	635	650	658
Hydro.....	Mil. kW.....	32	44	55	66	71	75	76	77	78	79
Steam conventional.....	Mil. kW.....	133	188	280	353	400	412	425	440	452	456
Gas turbine.....	Mil. kW.....	(2)	1	6	40	49	51	51	51	52	52
Steam nuclear.....	Mil. kW.....	3	3	4	5	6	5	6	6	6	6
Internal combustion.....	Mil. kW.....	3	3	4	5	6	5	6	6	6	6
CONSUMPTION OF FUELS											
Net generation by fuel ⁵	Bil. kWh.....	607	861	1,284	1,618	1,926	1,968	2,010	2,034	1,932	1,978
Average annual change ¹	Percent.....	8.9	7.2	7.6	4.7	6.0	2.2	2.1	1.2	-5.0	2.4
Coal ⁶	Bil. kWh.....	403	571	706	853	977	1,076	1,162	1,204	1,192	1,260
Percent of total.....	Percent.....	66.4	66.3	54.3	52.7	50.7	54.7	57.8	59.2	61.7	63.7
Fuel oil.....	Bil. kWh.....	46	65	182	289	364	303	246	268	146	144
Gas.....	Bil. kWh.....	158	221	373	300	305	329	346	346	305	274
Nuclear.....	Bil. kWh.....	1	4	22	173	276	255	251	273	283	294
Fuel consumed:											
Total coal equivalent.....	Mil. sh. tons.....	266	369	583	770	950	965	985	1,009	982	982
Coal, including lignite.....	Mil. sh. tons.....	177	245	321	406	482	527	569	597	594	625
Oil.....	Mil. bbl.....	85	115	336	506	636	523	420	351	250	245
Gas.....	Bil. cu. ft.....	1,724	2,321	3,932	3,158	3,188	3,491	3,682	3,640	3,228	2,911

NA Not available. Z Less than .5 million. ¹ Change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Includes small percentage from wood and waste, geothermal, and petroleum coke. ³ A prime mover is the engine, turbine, water wheel, or similar machine which drives an electric generator. ⁴ Each prime mover type in combination plants counted separately. ⁵ Includes limited output of wood, waste, and geothermal power. ⁶ Includes petroleum coke.

Source: 1960-1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, 1975-1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and unpublished data; thereafter, *Electric Power Annual*, and unpublished data.

NO. 973. ELECTRIC UTILITY INDUSTRY—CAPABILITY, PEAK LOAD, AND CAPABILITY MARGIN:

1970 TO 1982

[Excludes Alaska and Hawaii. Minus sign (–) indicates decrease]

YEAR	CAPABILITY			PEAK LOAD		CAPABILITY MARGIN	
	Total (mil. kW)	Annual increase (mil. kW)	Annual percent increase ¹	Total (mil. kW)	Annual percent change ¹	Total (mil. kW)	Percent of capability
1970: Summer	326.9	26.6	8.9	274.7	6.6	52.3	16.0
December	339.1	27.6	8.1	248.6	5.1	90.5	26.7
1974: Summer	444.4	28.9	7.0	349.3	1.6	95.2	21.4
Winter	467.4	34.2	7.9	302.5	2.5	164.9	35.3
1975: Summer	479.3	34.9	7.9	356.8	2.2	122.5	25.6
Winter	492.5	25.1	5.4	331.1	9.5	161.4	32.8
1976: Summer	498.8	19.5	4.1	370.9	4.0	127.9	25.6
Winter	511.0	18.5	3.8	349.9	5.7	161.1	31.5
1977: Summer	516.0	17.3	3.5	396.4	6.9	119.7	23.2
Winter	537.6	26.6	5.2	360.2	2.9	177.4	33.0
1978: Summer	545.7	29.7	5.8	408.1	3.0	137.7	25.2
Winter	561.6	24.0	4.5	383.1	6.4	178.5	31.8
1979: Summer	558.3	12.6	2.2	411.8	.9	146.7	26.9
Winter	589.2	7.6	1.4	380.7	–.6	198.5	33.1
1980: Summer	558.5	.2	(Z)	427.1	3.8	131.5	23.6
Winter	572.2	3.0	.5	384.6	1.0	187.6	32.8
1981: Summer	572.1	13.5	2.4	428.3	.3	143.8	25.1
Winter	581.1	8.9	1.6	391.1	1.7	190.0	32.7
1982: Summer	577.8	5.8	1.1	414.9	–3.1	162.9	28.2
Winter	(NA)	(NA)	(NA)	373.3	–4.5	(NA)	(NA)

NA Not available. Z Less than .05 percent. ¹ Percent change from previous year; e.g., 1970 from 1969 and 1974 from 1973.

Source: Edison Electric Institute, Washington, DC, 1982 Statistical Year Book of the Electric Utility Industry and 1983 Annual Electric Power Survey.

NO. 974. ELECTRIC ENERGY—PRODUCTION AND INSTALLED GENERATING CAPACITY, BY STATE:

1975 TO 1983

[Capacity as of Dec. 31. Covers utilities for public use]

DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)			DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)		
	1975	1980	1983	1975	1980	1983		1975	1980	1983	1975	1980	1983
U.S.	1,917.6	2,286.4	2,310.3	508.3	613.5	658.2	SA.—Con.						
N.E.	69.9	78.2	78.2	20.4	21.1	21.3	VA	35.3	34.3	37.7	9.7	11.7	11.6
ME	7.9	7.9	9.7	1.7	2.4	2.4	WV	61.4	70.8	72.5	11.9	15.2	15.1
NH	4.7	6.0	5.3	1.6	1.6	1.5	NC	53.3	72.1	74.7	15.0	15.6	18.3
VT	4.5	3.8	3.9	.9	.9	.9	SC	38.6	41.9	48.0	10.7	11.7	13.2
MA	30.5	34.8	34.7	9.4	9.6	10.1	GA	41.7	63.3	66.6	13.0	16.3	17.5
RI .....	.8	1.0	.6	.3	.3	.3	FL	77.8	95.9	91.5	21.7	29.0	31.9
CT	21.4	24.7	23.9	6.4	6.3	6.1	E.S.C.	171.8	214.1	218.7	48.1	53.3	59.6
M.A.	238.8	260.5	255.9	67.5	78.4	80.5	KY	51.1	57.1	57.7	12.1	13.6	18.0
NY	107.3	108.6	104.9	28.4	31.4	31.9	TN	54.6	60.2	69.4	14.3	15.9	18.3
NJ	23.2	29.4	27.3	11.4	12.6	13.8	AL	54.7	78.3	76.2	15.2	18.2	19.2
PA	108.2	122.5	123.6	27.7	34.4	34.8	MS	11.4	18.5	13.4	4.6	5.5	6.1
E.N.C.	356.4	397.0	386.2	91.5	107.9	110.8	W.S.C.	234.0	313.1	319.0	65.8	84.7	94.2
OH	102.6	110.2	105.9	24.8	27.4	27.8	AR	13.7	19.7	30.1	4.9	7.2	8.8
IN	59.4	70.6	70.9	13.4	17.1	18.6	LA	39.2	45.7	37.0	11.6	12.9	15.6
IL	92.8	103.4	99.2	25.6	29.9	31.0	OK	33.3	44.6	45.7	7.9	11.3	12.4
MI	68.2	74.8	70.9	18.9	22.7	22.6	TX	147.8	203.0	206.2	41.4	53.3	57.4
WI	33.5	37.8	39.3	8.9	10.7	10.8	Mt.	111.5	158.8	177.7	27.6	35.8	41.7
W.N.C.	132.4	168.2	173.1	36.9	49.0	54.7	MT	11.9	15.5	15.1	2.4	3.2	3.2
MN	25.3	31.5	30.0	6.8	8.8	8.6	ID	10.3	9.5	12.8	1.7	2.0	2.0
IA	15.9	21.8	22.3	5.4	7.3	8.7	WY	11.9	22.4	26.3	2.8	4.1	5.8
MO	40.4	48.9	52.7	11.1	13.8	15.7	CO	16.6	23.6	25.2	4.3	6.1	6.8
ND	8.3	15.8	19.6	1.7	3.4	3.8	NM	19.7	24.7	27.2	4.1	5.0	5.4
SD	10.1	8.6	7.8	2.1	2.2	2.3	AZ	21.7	36.9	41.4	7.5	9.4	10.9
NE	13.3	16.3	17.1	3.8	5.1	6.0	UT	5.8	12.1	12.4	1.2	2.1	3.0
KS	19.1	25.1	23.8	6.0	8.3	9.6	NV	13.7	14.1	17.4	3.5	3.9	4.5
S.A.	342.3	417.8	431.3	92.5	111.5	120.3	Pac.	260.6	278.8	272.3	60.0	71.9	75.1
DE	6.0	6.7	9.5	1.5	1.6	2.0	WA	93.0	92.3	95.1	16.8	23.0	21.8
MD	26.9	32.2	32.6	7.6	9.2	9.8	OR	34.5	36.6	49.2	7.6	8.5	10.6
DC	1.2	.7	.2	1.3	1.2	.9	CA	125.4	140.3	117.7	33.7	37.8	39.8
							AK	2.2	3.1	3.7	.7	1.1	1.3
							HI	5.5	6.5	6.5	1.2	1.4	1.6

Source: U.S. Energy Information Administration, 1975 and 1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*; thereafter, *Electric Power Annual*.

NO. 975. PRIVATELY AND PUBLICLY OWNED ELECTRIC UTILITY GENERATING PLANTS—NUMBER AND CAPACITY, BY TYPE AND SIZE OF PRIME MOVER: 1970 TO 1983

[Capacity as of Dec. 31. Each prime mover type in combination plants is counted separately. For definition of prime mover, see table 972, footnote 3]

TYPE AND SIZE OF PRIME MOVER	PRIVATELY OWNED						PUBLICLY OWNED					
	Number of prime movers			Capacity (mil. kW)			Number of prime movers			Capacity (mil. kW)		
	1970	1980	1983	1970	1980	1983	1970	1980	1983	1970	1980	1983
Total	2,037	2,094	2,035	262.6	477.0	505.5	1,496	1,461	1,451	78.8	136.6	152.7
Steam conventional.....	672	626	607	222.4	361.4	380.8	326	308	303	37.7	63.1	74.7
Under 100,000 kW.....	220	134	117	8.2	5.6	5.5	254	195	179	6.9	6.2	6.3
100,000-500,000 kW.....	299	239	223	77.1	64.0	60.4	58	75	80	12.3	17.4	19.6
Over 500,000 kW.....	153	253	267	137.1	291.8	314.9	14	38	44	18.5	39.6	48.7
Steam, nuclear.....	15	43	46	5.7	48.0	56.1	1	8	9	.8	8.5	11.0
Over 500,000 kW.....	7	37	42	4.5	46.8	55.4	1	7	8	.8	8.5	11.0
Hydro.....	754	732	743	18.9	24.2	25.0	434	410	439	36.3	52.1	54.0
Over 25,000 kW.....	165	173	176	15.6	21.0	21.7	164	186	192	35.1	51.0	52.7
Gas turbine.....	265	411	406	14.4	41.6	42.1	58	130	136	1.1	9.1	9.5
Over 25,000 kW.....	126	281	280	12.1	39.4	40.0	12	65	67	.4	8.0	8.4
Internal combustion.....	331	282	233	1.3	1.8	1.5	677	625	564	3.0	3.7	3.5
Under 5,000 kW.....	238	166	127	.5	.4	.3	471	358	311	1.0	.7	.6
Over 5,000 kW.....	93	116	106	.9	1.5	1.2	206	267	253	2.0	3.0	2.9

Source: U.S. Energy Information Administration, unpublished data.

NO. 976. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE, 1970 TO 1983, AND BY STATE, 1983

[In billions of kilowatthours]

YEAR, DIVISION, AND STATE	Total ¹	Residential	Commercial	Industrial	DIVISION AND STATE	Total ¹	Residential	Commercial	Industrial
1970, total.....	1,392.3	466.3	306.7	570.8	S.A.....	382.8	151.6	98.2	119.5
1973, total.....	1,712.9	579.2	388.3	686.1	Delaware.....	5.6	1.5	1.4	2.5
1975, total.....	1,747.1	588.1	403.0	687.7	Maryland ²	44.3	14.7	12.1	16.6
1978, total.....	2,017.9	674.5	461.2	809.1	Virginia.....	53.5	21.6	13.2	12.7
1979, total.....	2,071.1	682.8	473.3	841.9	West Virginia.....	20.7	6.8	4.1	9.7
1980, total.....	2,094.4	717.5	486.2	815.1	North Carolina.....	66.2	25.2	15.2	24.6
1981, total.....	2,147.1	722.3	514.3	825.7	South Carolina.....	41.8	13.8	8.2	18.7
1982, total.....	2,086.4	729.5	526.4	744.9	Georgia.....	54.2	20.7	12.9	19.7
1983, total.....	2,151.0	750.9	543.8	776.0	Florida.....	96.5	47.3	31.0	15.0
N.E.....	83.8	30.6	26.6	24.3	E.S.C.....	185.3	64.7	36.9	79.6
Maine.....	4.4	3.2	1.7	4.3	Kentucky.....	41.2	14.5	7.5	23.5
New Hampshire.....	6.3	2.5	1.3	2.4	Tennessee.....	69.4	24.8	15.3	28.4
Vermont.....	3.9	1.8	.8	1.2	Alabama.....	45.1	15.8	8.8	19.8
Massachusetts.....	36.0	12.4	13.2	9.0	Mississippi.....	23.7	9.7	5.4	8.1
Rhode Island.....	5.2	1.9	1.8	1.3	W.S.C.....	306.6	101.1	69.8	123.3
Connecticut.....	23.0	8.8	7.8	6.1	Arkansas.....	23.2	8.8	4.5	9.3
M.A.....	257.1	81.0	74.6	87.9	Louisiana.....	55.3	17.4	10.0	23.8
New York.....	109.5	31.8	34.7	31.4	Oklahoma.....	37.0	14.6	9.0	10.6
New Jersey.....	50.9	16.9	18.2	15.4	Texas.....	191.2	60.3	46.3	79.6
Pennsylvania.....	96.7	32.3	21.7	41.0	Mt.....	118.3	40.1	33.4	40.9
E.N.C.....	374.0	120.5	84.6	153.5	Montana.....	9.8	3.1	2.3	4.2
Ohio.....	106.8	33.4	23.1	46.3	Idaho.....	15.8	5.2	4.1	6.3
Indiana.....	61.8	19.9	10.6	30.4	Wyoming.....	8.2	1.8	1.4	4.8
Illinois.....	97.1	30.7	26.4	32.3	Colorado.....	24.2	9.5	10.3	4.0
Michigan.....	69.3	21.9	15.0	30.2	New Mexico.....	8.8	2.6	2.4	2.8
Wisconsin.....	39.0	14.4	9.6	14.2	Arizona.....	27.9	10.4	8.7	7.9
W.N.C.....	157.7	63.7	36.8	51.9	Utah.....	13.2	3.8	2.6	6.0
Minnesota.....	36.0	13.4	5.8	15.9	Nevada.....	10.5	3.7	1.6	4.8
Iowa.....	27.8	11.1	6.0	9.5	Pac.....	285.3	97.6	82.9	95.1
Missouri.....	45.2	19.0	11.7	12.9	Washington.....	76.3	27.3	14.4	30.8
North Dakota.....	5.7	2.7	1.0	1.8	Oregon.....	33.7	13.1	8.5	11.6
South Dakota.....	5.4	2.8	1.1	1.4	California.....	165.2	53.9	57.9	48.2
Nebraska.....	15.0	6.4	4.1	3.7	Alaska.....	3.5	1.5	.7	1.2
Kansas.....	22.6	8.4	7.1	6.8	Hawaii.....	6.6	1.9	1.4	3.3

¹ Includes other service, not shown separately. ² Includes District of Columbia.

Source: U.S. Energy Information Administration, *Electric Power Annual*.

No. 977. ELECTRIC UTILITIES—GENERATION, SALES, REVENUE, AND CUSTOMERS: 1960 TO 1982

(Sales and revenue are to and from ultimate customers)

CLASS	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Generation ¹	Bil. kWh	753	1,055	1,532	1,918	2,038	2,124	2,206	2,247	2,286	2,295	2,241
Sales ²	Bil. kWh	683	953	1,391	1,733	1,850	1,951	2,018	2,084	2,126	2,151	2,094
Residential or domestic	Bil. kWh	196	281	448	588	613	652	679	696	734	730	729
Percent of total	Percent	28.7	29.5	32.2	33.8	33.2	33.4	33.6	33.4	34.5	34.0	34.8
Commercial ³	Bil. kWh	115	202	313	418	441	469	481	495	524	522	514
Industrial ⁴	Bil. kWh	345	453	573	682	725	757	782	782	794	820	771
Revenue ²	Bil. dol	11.5	18.2	22.1	26.9	28.5	29.8	29.9	29.9	29.9	29.9	29.9
Residential or domestic	Bil. dol	4.9	6.3	9.4	18.8	21.1	24.7	27.4	31.0	37.6	42.4	47.0
Percent of total	Percent	42.2	41.8	42.7	40.1	39.6	39.4	39.2	39.8	39.4	38.3	38.8
Commercial ³	Bil. dol	2.8	4.3	6.3	13.5	15.2	18.0	18.7	22.3	27.4	31.3	33.9
Industrial ⁴	Bil. dol	3.3	3.9	5.4	12.7	15.0	17.6	20.3	23.8	27.3	33.0	35.9
Ultimate customers, Dec. 31 ²	Million	58.9	65.6	72.5	81.8	83.6	85.6	87.7	89.8	92.7	94.0	95.3
Residential or domestic	Million	51.4	57.6	64.0	72.6	74.2	75.9	77.8	79.6	82.2	83.3	84.4
Commercial ³	Million	6.8	7.4	7.9	8.6	8.8	8.9	9.1	9.4	9.7	9.8	10.0
Industrial ⁴	Million	.5	.3	.4	.4	.4	.4	.5	.5	.5	.5	.5
Avg. kWh used per customer	1,000	11.7	14.7	19.4	21.4	22.4	23.1	23.3	23.5	23.2	23.0	22.1
Residential	1,000	3.9	4.9	7.1	8.2	8.4	8.7	8.8	8.8	9.0	8.8	8.7
Commercial ³	1,000	17.0	27.4	40.0	49.0	50.7	52.9	53.1	53.2	54.5	53.4	52.0
Avg. annual bill per customer	Dollar	198	234	308	578	646	740	807	897	1,040	1,184	1,280
Residential	Dollar	95	111	148	262	288	329	357	391	462	512	561
Commercial ³	Dollar	418	584	803	1,592	1,755	2,031	2,176	2,394	2,848	3,207	3,429
Avg. revenue per kWh sold	Cents	1.69	1.59	1.59	2.70	2.89	3.21	3.48	3.82	4.49	5.14	5.79
Residential	Cents	2.47	2.25	2.10	3.21	3.45	3.78	4.03	4.43	5.12	5.80	6.45
Commercial ³	Cents	2.46	2.13	2.01	3.23	3.48	3.84	4.10	4.50	5.22	6.00	6.60
Industrial ⁴	Cents	.97	.90	.95	1.92	2.07	2.33	2.59	2.91	3.44	4.03	4.66

¹ Source: 1960-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Monthly Energy Review*. ² Includes other types not shown separately. ³ Small light and power. ⁴ Large light and power.

Source: Except as noted, Edison Electric Institute, Washington, DC, *Statistical Year Book*.

No. 978. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED COMPANIES: 1960 TO 1982

(In billions of dollars. As of Dec. 31. On the basis of both assets and revenues, these classes (A and B utilities) comprise nearly 100 percent of the privately-owned sector of the electric light and power industry. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212)

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
COMPOSITE BALANCE SHEET											
Assets and other debits	44.7	56.4	87.4	157.1	173.1	192.1	211.1	234.8	260.0	286.0	315.7
Electric utility plant ¹	45.5	59.7	93.3	160.7	177.6	196.8	218.0	242.3	266.9	292.7	322.0
Depreciation and amortization	8.9	13.6	20.3	37.9	35.6	39.8	44.5	48.7	55.5	61.5	67.9
Net electric utility plant	36.6	46.1	73.1	122.8	142.0	157.0	173.5	192.6	211.5	231.2	254.1
Other utility plant	4.9	6.6	9.0	11.7	12.1	12.6	13.2	13.9	14.8	15.7	16.7
Depreciation and amortization	1.0	1.4	2.1	3.1	3.4	3.7	3.9	4.2	4.5	4.9	5.3
Net other utility plant	3.9	5.2	6.9	8.6	8.7	9.0	9.3	9.7	10.3	10.8	11.4
Total utility plant	50.3	66.3	102.3	172.4	189.7	209.4	231.2	256.2	281.7	308.4	338.7
Depreciation and amortization	9.9	15.0	22.3	35.0	36.9	45.5	48.4	53.9	60.0	66.4	73.2
Net total utility plant	40.5	51.3	79.9	137.4	150.7	166.0	182.8	202.3	221.7	242.0	265.5
Other property and investments	1.0	1.2	1.7	4.5	4.8	5.6	6.4	6.0	6.5	7.9	9.1
Current and accrued assets	3.1	3.6	5.3	13.5	15.6	18.2	18.9	22.4	26.2	28.7	31.8
Deferred debits	.2	.2	.4	1.7	2.0	2.3	3.0	4.1	5.5	7.3	9.3
Liabilities and other credits ²	44.7	56.4	87.4	157.1	173.1	192.1	211.1	234.8	260.0	286.0	315.7
Capital stock	13.3	15.7	20.8	37.8	41.6	45.6	49.1	53.8	59.3	63.9	70.4
Other paid-in capital	1.7	2.6	4.4	11.5	13.4	16.6	17.9	19.4	21.5	24.0	27.7
Retained earnings	3.7	5.7	9.4	14.7	16.2	17.8	19.4	21.0	22.7	25.0	28.0
Subsidiary earnings ³	(x)	(x)	(x)	.8	.7	.8	.9	1.0	1.1	1.3	1.6
Long-term debt	21.0	25.5	41.9	70.8	76.2	82.2	88.3	95.7	105.3	115.5	124.2
Current and accrued liabilities	3.1	4.2	7.3	13.7	14.1	16.0	18.3	23.4	26.3	28.4	29.7
Deferred credits and operating reserves	.3	.5	.9	2.7	4.0	5.7	7.1	8.7	9.8	11.5	15.6
Deferred income taxes ⁴	1.3	1.8	2.2	5.4	6.8	8.3	10.0	11.9	14.1	16.7	19.5
COMPOSITE INCOME ACCOUNTS											
Electric operating revenues	10.1	13.4	19.8	44.6	50.6	58.9	65.4	72.9	87.1	102.3	110.0
Electric operating expenses	7.9	10.3	15.3	36.1	41.1	48.6	54.3	61.0	73.4	85.0	91.8
Net electric operating revenues	2.2	3.1	4.5	8.5	9.4	10.3	11.1	11.8	13.6	16.3	18.2
Other utility operating income	.2	.3	.4	.5	.6	.6	.7	.7	.7	.9	.9
Total utility operating income	2.4	3.4	4.9	9.0	10.1	10.9	11.7	12.5	14.4	17.0	19.1
Other income	.2	.2	.8	2.2	2.5	2.2	2.5	3.1	3.6	4.4	5.3
Total income	2.6	3.6	5.7	11.3	12.5	13.0	14.3	15.6	18.0	21.4	24.5
Income deductions	.8	1.0	2.3	5.1	5.4	5.0	5.5	6.1	7.3	8.7	9.4
Net income ⁵	1.8	2.6	3.4	6.1	7.2	8.0	8.7	9.5	10.7	12.7	15.1

X Not applicable. ¹ Includes construction work in progress. ² Includes contributions in aid of construction through 1970. ³ Unappropriated undistributed. ⁴ Cumulative. ⁵ Beginning 1975, includes net extraordinary income.

Source: 1960-1975, U.S. Federal Power Commission; U.S. Energy Information Administration, 1976-1981, *Statistics of Privately Owned Electric Utilities in the United States*, annual; thereafter, *Financial Statistics of Selected Electric Utilities*, annual.

NO. 979. NUCLEAR POWER PLANTS—NUMBER, CAPACITY, AND GENERATION: 1965 TO 1983

ITEM	1965	1970	1973	1975	1977	1978	1979	1980	1981	1982	1983, prel.
Operable reactors ¹	10	19	39	54	65	70	68	70	74	77	80
Capacity ² (mil. kW)	.9	6.5	22.9	33.3	46.0	49.6	49.3	51.1	55.5	58.6	62.6
Electricity generated (bil. kWh)	.4	22	84	173	251	276	255	251	273	283	292
Percent of total electric utility generation	.4	1.4	4.5	8.0	11.6	12.5	11.4	11.0	11.9	12.6	12.6
Capacity factor ³	(NA)	(NA)	52.9	59.7	64.1	65.7	58.7	57.1	58.4	57.2	54.8

NA Not available. ¹ As of yearend. ² Net maximum dependable capacity of operable reactors. ³ Weighted average of monthly capacity factors. Monthly factors are derived by dividing actual monthly generation by the maximum possible generation for the month (hours in month times net maximum dependable capacity).

Source: U.S. Energy Information Administration, *Annual Energy Review* and *Monthly Energy Review*.

NO. 980. COMMERCIAL NUCLEAR POWER GENERATION, BY COUNTRY: 1970 TO 1983

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS				ELECTRICITY GENERATED ¹ (bil. kWh)				GROSS CAPACITY (1,000 kW)			
	1970	1980	1982	1983	1970	1980	1982	1983	1970	1980	1982	1983
Total	64	208	239	250	73.9	617.8	791.5	799.6	15,186	126,847	163,369	172,331
U.S.	15	74	81	81	23.2	265.2	298.9	285.1	5,211	56,529	65,420	67,363
Argentina	-	1	1	1	-	2.3	1.9	2.3	-	357	357	357
Belgium	1	3	5	5	.3	12.5	15.6	22.0	11	1,744	3,621	3,621
Brazil	-	-	1	1	-	-	.1	.1	-	-	657	657
Canada	1	9	12	12	.9	40.4	42.6	48.0	220	5,588	7,597	7,597
China: Taiwan	-	2	4	4	-	8.2	13.1	17.2	-	1,272	3,242	3,242
Germany, F.R. of	4	11	12	13	5.3	43.7	63.4	59.0	907	8,996	10,316	11,511
Great Britain	27	33	32	35	26.5	37.2	44.1	44.5	4,783	9,012	8,979	10,960
Finland	-	4	4	4	-	7.0	16.5	15.7	-	2,296	2,296	2,296
France	4	22	32	36	5.7	61.2	108.9	127.4	1,806	15,412	27,633	28,557
India	2	4	4	4	2.2	2.9	2.2	2.6	400	860	860	860
Italy	3	4	3	2	3.3	2.2	6.8	5.1	631	1,490	1,330	1,060
Japan	3	22	25	25	3.3	81.0	104.5	97.4	828	15,117	17,342	17,342
Korea, Rep. of	-	1	1	3	-	3.5	3.8	7.7	-	587	587	1,916
Netherlands	1	2	2	2	.4	4.2	3.9	3.2	55	529	535	535
Pakistan	-	1	1	-	-	.1	.1	.2	-	137	137	137
Spain	1	3	4	6	.9	5.2	8.8	9.3	180	1,117	2,047	3,907
Sweden	1	8	10	10	(2)	26.7	38.9	35.4	12	5,770	7,715	7,715
Switzerland	1	4	4	4	1.9	14.3	15.0	14.0	364	2,034	2,034	2,034
Yugoslavia	-	-	1	1	-	-	2.5	3.4	-	-	664	664

- Represents zero. Z Less than 50 million kWh. ¹ Gross.

Source: McGraw-Hill, Inc., New York, NY, *Nucleonics Week*, December Issues. (Copyright.)

NO. 981. URANIUM SUPPLY, ENRICHMENT, AND DISCHARGED COMMERCIAL REACTOR FUEL: 1965 TO 1983

[Years ending Dec. 31, except as noted. For explanation of kilogram see weights and measures]

ITEM	Unit	1965	1970	1975	1978	1979	1980	1981	1982	1983
URANIUM (U₃O₈)										
Production	Sh. tons	10,442	12,905	11,600	18,490	18,730	21,850	19,240	13,430	10,600
Exports	Sh tons	-	2,100	500	3,400	3,100	2,900	2,200	2,200	950
Imports	Sh tons	3,995	-	700	2,600	1,500	1,800	3,300	5,550	3,400
Delivered price	Dol./lb	(NA)	(NA)	10.50	21.60	23.65	26.00	32.20	39.80	38.20
ENRICHMENT										
Enriched product ¹	Mil. Kg. Swu ²	.54	5.10	9.92	11.76	13.98	10.69	11.50	12.36	³ 8.46
For domestic customers	Mil. Kg. Swu ²	.20	3.74	4.36	6.08	8.68	6.89	7.19	6.69	³ 4.69
For foreign customers	Mil. Kg. Swu ²	.34	1.36	5.56	5.68	5.31	3.80	4.31	5.67	³ 3.77
Sales ⁴	Mil. dol.	(NA)	(NA)	376	1,046	1,432	1,379	1,445	2,185	2,329
DISCHARGED COMMERCIAL REACTOR FUEL ⁵										
Annual discharge	Metric tons	36	75	530	1,009	1,201	1,227	1,100	1,037	1,283
Inventory, yearend ⁶	Metric tons	42	24	1,124	3,581	4,779	6,006	7,106	9,034	10,317
On-site storage	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6,827	8,555	9,868
Off-site storage	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	479	479	449

- Represents zero. NA Not available. ¹ Based on sales. ² Separate work unit. The standard measure of enrichment services is based on operating tails assay in effect at the time the enriched product was placed in inventory. ³ Jan.-Sept. only. ⁴ Fiscal years. ⁵ Uranium content. Source: Nuclear Assurance Corporation, Atlanta, GA. ⁶ Reprocessed fuel not included as inventory.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review* and U.S. Dept. of Energy, *Statistical Data of the Uranium Industry, 1983; Uranium Enrichment Annual Report, 1982; and U.S. Industry Viability Study*.

NO. 982. PRIVATELY OWNED GAS UTILITY INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT:
1960 to 1982

(In millions of dollars. Excludes Alaska for 1960. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1970*, series S 205-216)

ITEM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
COMPOSITE BALANCE SHEET										
Assets, total ¹	20,000	25,840	34,929	50,286	59,897	62,918	70,245	75,725	86,894	95,133
Total utility plant.....	20,635	28,205	38,541	49,384	55,020	59,033	62,710	66,767	72,917	78,636
Depreciation and amortization.....	4,570	7,205	10,696	16,779	20,586	22,661	24,400	26,062	28,908	31,439
Utility plant (net).....	16,265	21,000	27,845	32,605	34,434	36,172	38,310	40,705	44,009	47,197
Investment and fund accounts ¹	1,380	1,885	3,024	8,198	12,513	12,905	14,097	15,625	19,368	20,754
Current and accrued assets.....	2,185	2,545	3,674	7,543	11,194	12,129	15,427	17,211	20,563	23,593
Deferred debits ²	170	210	386	940	1,556	1,815	2,411	2,184	2,954	3,589
Liabilities, total ¹	20,000	25,840	34,929	50,286	59,897	62,918	70,245	75,725	86,894	95,133
Capitalization, total ¹	16,940	21,520	28,646	39,044	44,316	45,830	48,165	51,299	57,512	62,468
Capital stock ¹	7,810	10,005	12,965	19,500	23,840	25,585	27,195	29,262	33,041	36,267
Long-term debts.....	9,130	11,515	15,681	19,544	20,476	20,245	21,030	22,037	24,471	26,201
Current and accrued liabilities.....	2,420	3,035	4,832	8,158	10,636	11,704	16,024	18,107	22,134	23,839
Deferred income taxes ³	350	660	788	2,052	2,794	2,991	3,798	4,144	4,972	5,485
Other liabilities and credits.....	290	425	663	1,032	1,951	2,393	2,257	2,175	2,276	3,341
COMPOSITE INCOME ACCOUNT										
Operating revenues, total.....	8,696	11,525	16,380	30,550	46,309	52,995	66,931	85,807	101,593	115,875
Operating expenses ⁴	7,587	10,063	14,306	27,480	42,685	49,272	62,887	81,517	96,917	110,451
Operation and maintenance.....	5,951	7,973	11,636	22,957	36,958	43,108	56,281	74,433	89,108	101,721
Federal, State, and local taxes.....	1,058	1,292	1,569	2,763	3,719	3,980	4,294	4,653	5,056	5,708
Operating income.....	1,109	1,462	2,074	3,070	3,624	3,723	4,043	4,290	4,676	5,424
Utility operating income.....	1,137	1,503	2,159	3,221	3,776	3,944	4,296	4,633	5,087	5,832
Income before interest charges ¹	1,247	1,680	2,457	4,137	4,996	5,385	6,303	7,112	8,369	8,756
Net income ¹	830	1,107	1,427	2,502	3,193	3,443	4,208	4,377	5,145	5,081
Dividends.....	581	781	1,006	1,509	1,959	2,117	2,362	2,566	3,064	3,302

¹ Beginning 1975, not comparable with earlier years due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. ² Includes capital stock discount and expense and reacquired securities. ³ Includes reserves for deferred income taxes. ⁴ Includes expenses not shown separately.

NO. 983. GAS UTILITY INDUSTRY—SUMMARY: 1960 TO 1982

[1960 excludes Alaska. Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
Customers ¹	1,000	33,054	37,338	41,482	44,555	45,274	45,789	46,478	47,225	47,947	48,417
Residential.....	1,000	30,418	34,341	38,097	40,950	41,682	42,183	42,921	43,489	44,149	44,554
Commercial.....	1,000	2,458	2,790	3,131	3,367	3,371	3,370	3,423	3,500	3,564	3,631
Industrial and other.....	1,000	178	207	254	237	220	236	234	236	234	232
Sales ²	Tril. Btu ³	9,288	11,980	16,044	14,863	14,341	14,748	15,440	15,413	15,375	14,281
Residential.....	Tril. Btu	3,188	3,999	4,923	4,991	4,946	5,107	5,083	4,826	4,610	4,770
Percent of total.....	Percent	34.3	33.4	30.7	33.6	34.5	34.6	32.9	31.3	30.0	33.4
Commercial.....	Tril. Btu	920	1,345	2,007	2,387	2,409	2,500	2,486	2,453	2,376	2,471
Industrial.....	Tril. Btu	4,710	6,146	8,439	6,837	6,711	6,841	7,555	7,957	8,239	6,892
Other.....	Tril. Btu	470	490	674	648	275	301	316	177	150	148
Revenues ²	Mill. dol	5,617	7,407	10,283	19,101	28,303	32,150	38,947	48,303	56,110	63,391
Residential.....	Mill. dol	3,177	4,030	5,207	8,445	11,541	12,339	14,633	17,432	19,180	23,701
Percent of total.....	Percent	56.6	54.4	50.6	44.2	40.8	40.2	39.1	36.1	34.2	37.4
Commercial.....	Mill. dol	723	1,054	1,620	3,302	4,880	5,898	6,524	8,183	9,265	11,666
Industrial.....	Mill. dol	1,563	2,148	3,181	6,745	11,385	13,065	16,951	22,215	27,124	27,389
Other.....	Mill. dol	153	176	274	608	397	450	530	473	520	635
Prices per mil. Btu ³	Dollars.....	.60	.62	.64	1.29	1.97	2.18	2.52	3.13	3.65	4.44
Residential.....	Dollars.....	1.00	1.01	1.06	1.69	2.33	2.53	2.92	3.61	4.16	4.97
Commercial.....	Dollars.....	.79	.78	.81	1.38	2.07	2.28	2.66	3.34	3.91	4.72
Industrial.....	Dollars.....	.33	.35	.38	.99	1.70	1.91	2.24	2.79	3.29	3.97
Gas mains mileage	1,000	631	788	913	980	998	1,013	1,030	1,052	1,070	1,083
Field and gathering.....	1,000	56	62	66	68	71	75	78	84	86	90
Transmission.....	1,000	184	211	252	283	260	265	286	286	270	272
Distribution.....	1,000	391	495	595	649	667	678	688	702	714	721
Construction expenditures ⁴	Mill. dol	1,845	1,935	2,506	2,466	2,833	3,581	4,366	5,350	6,389	5,939
Transmission.....	Mill. dol	848	770	1,019	590	670	935	1,225	1,583	2,352	1,921
Distribution.....	Mill. dol	695	824	913	910	1,048	1,228	1,448	1,669	1,995	1,861
Production and storage.....	Mill. dol	216	225	370	831	943	1,202	1,406	1,546	1,672	1,590

¹ Annual average. ² Excludes sales for resale. ³ For definition, see text, p. 551. ⁴ Includes general.

Source of tables 982 and 983: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

NO. 984. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY CLASS OF SERVICE, AND STATES: 1982

(See headnote, table 983)

DIVISION AND STATE	CUSTOMERS ¹ (1,000)				SALES ² (trillion Btu ³)				REVENUES ⁴ (mil. dol.)			
	Total ²	Residential	Commercial	Industrial	Total ²	Residential	Commercial	Industrial	Total ²	Residential	Commercial	Industrial
U.S.	48,417	44,554	3,631	166	14,281	4,770	2,471	6,882	63,391	23,701	11,666	27,389
N. Eng.	1,775	1,632	131	9	324	150	100	72	2,198	1,146	644	393
ME.....	15	12	3	(Z)	3	1	1	1	19	5	9	5
NH.....	53	46	6	(Z)	10	4	4	2	63	31	23	6
VT.....	16	14	1	(Z)	5	2	1	2	30	11	6	12
MA.....	1,098	1,016	74	5	199	94	64	39	1,315	701	401	200
RI.....	176	163	12	1	28	15	5	8	201	118	38	45
CT.....	417	381	34	2	78	34	25	20	570	280	167	123
Mid. Atl.	8,203	7,604	565	24	1,641	786	324	495	8,983	4,722	1,770	2,305
NY.....	3,983	3,705	240	11	650	353	124	148	3,730	2,211	676	710
NJ.....	1,870	1,688	175	7	334	152	80	102	2,047	1,038	499	510
PA.....	2,370	2,211	150	6	657	281	120	245	3,206	1,473	585	1,085
E. No. Cent.	10,941	10,097	793	48	3,342	1,518	697	1,116	14,487	6,935	3,000	4,508
OH.....	2,767	2,563	195	7	790	379	159	246	3,599	1,816	720	1,031
IN.....	1,282	1,174	103	5	467	165	72	227	1,798	686	283	821
IL.....	3,326	3,060	247	18	1,050	494	238	317	4,401	2,161	967	1,272
MI.....	2,497	2,324	163	10	724	361	171	191	3,149	1,606	752	790
WI.....	1,069	976	85	8	311	119	57	135	1,540	666	278	594
W. No. Cent.	4,252	3,836	400	14	1,224	490	295	434	5,169	2,282	1,250	1,622
MN.....	856	778	73	5	252	107	50	95	1,154	532	238	342
IA.....	759	676	81	2	231	86	53	92	966	398	228	380
MO.....	1,224	1,129	93	1	285	140	88	55	1,334	701	406	222
ND.....	81	80	11	(Z)	24	11	12	1	106	51	49	6
SD.....	107	95	12	(Z)	25	12	8	5	108	54	34	20
NE.....	456	395	59	1	133	51	35	47	501	215	127	159
KS.....	759	683	71	5	274	83	49	139	1,000	331	168	493
So. Atl.	4,194	3,839	335	14	1,229	339	240	641	5,692	1,875	1,190	2,590
DE.....	84	78	5	(Z)	24	7	4	12	127	40	21	82
MD.....	788	732	51	5	155	69	31	55	865	418	174	272
DC.....	147	132	15	-	29	13	16	-	183	85	98	-
VA.....	542	495	45	2	140	47	38	53	715	277	200	226
WV.....	393	361	32	(Z)	113	45	22	46	537	225	106	206
NC.....	395	348	44	2	141	32	25	83	668	175	124	366
SC.....	312	277	30	1	100	19	17	64	454	101	78	272
GA.....	1,083	1,003	77	2	292	93	58	141	1,262	462	253	546
FL.....	450	413	36	1	235	14	29	187	681	92	136	640
E. So. Cent.	2,234	2,018	202	6	710	189	111	395	2,924	887	466	1,493
KY.....	643	584	56	1	156	68	30	53	682	310	134	215
TN.....	520	451	63	2	196	43	41	109	776	182	179	407
AL.....	674	623	46	2	192	51	26	115	826	265	113	446
MS.....	397	358	37	1	166	27	14	118	640	130	60	425
W. So. Cent.	5,712	5,208	473	24	3,243	420	245	2,528	12,006	1,918	1,038	8,556
AR.....	514	454	58	2	210	46	30	134	703	172	105	426
LA.....	1,017	945	68	2	463	68	26	353	1,723	330	124	1,214
OK.....	852	779	79	3	454	81	46	327	1,296	273	152	869
TX.....	3,318	3,030	266	17	2,116	225	143	1,714	8,284	1,143	657	6,347
Mt.	2,842	2,577	253	7	709	257	158	277	2,993	1,184	716	1,012
MT.....	187	185	21	(Z)	50	21	14	12	231	89	67	64
ID.....	112	96	15	(Z)	34	7	9	18	183	47	49	86
WY.....	129	114	14	(Z)	53	15	9	28	198	65	38	87
CO.....	908	810	96	2	200	65	64	50	916	418	293	202
NM.....	344	308	31	3	100	29	15	46	390	193	64	154
AZ.....	598	543	43	2	113	31	22	58	500	173	101	218
UT.....	393	366	27	(Z)	110	52	16	42	337	178	55	104
NV.....	181	175	6	(Z)	49	17	9	23	238	91	49	97
Pac.	8,264	7,745	479	40	1,859	621	301	934	8,939	2,742	1,572	4,610
WA.....	384	337	44	3	113	31	31	51	651	197	185	267
OR.....	287	251	35	1	68	19	17	32	402	130	103	189
CA.....	7,510	7,084	393	33	1,638	580	248	828	7,790	2,385	1,267	4,125
AK.....	50	44	5	1	37	10	4	22	48	19	6	23
HI.....	33	29	2	2	3	1	1	1	48	11	11	26

- Represents zero. Z Fewer than 500. ¹ Averages for the year. ² Includes other service, not shown separately.

³ Excludes sales for resale. ⁴ For definition, see headnote, table 950.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual. (Copyright.)

NO. 985. GAS UTILITY INDUSTRY—PRICES, BY STATE: 1982

(In dollars per million Btu. For definition of Btu, see headnote, table 950. Excludes sales for resale)

STATE	Total	Residential	Commercial	Industrial	STATE	Total	Residential	Commercial	Industrial	STATE	Total	Residential	Commercial	Industrial
U.S.....	4.44	4.97	4.72	3.97	KS.....	3.65	3.99	3.43	3.55	ND.....	4.36	4.61	4.18	4.02
AL.....	4.31	5.24	4.41	3.88	KY.....	4.35	4.53	4.43	4.10	OH.....	4.58	4.80	4.53	4.20
AK.....	1.32	1.83	1.57	1.04	LA.....	3.79	4.87	4.56	3.44	OK.....	2.85	3.39	3.30	2.86
AZ.....	4.43	5.49	4.62	3.79	ME.....	7.12	8.31	7.05	6.39	OR.....	5.91	6.64	6.11	5.35
AR.....	3.35	3.73	3.56	3.17	MD.....	5.58	6.08	5.56	4.97	PA.....	4.88	5.24	4.85	4.42
CA.....	4.76	4.26	5.12	4.98	MA.....	6.82	7.47	6.32	5.10	RI.....	7.07	7.69	7.36	5.68
CO.....	4.57	4.93	4.54	4.03	MN.....	4.35	4.44	4.39	4.14	SC.....	4.54	5.42	4.55	4.27
CT.....	7.21	8.35	6.68	5.99	MS.....	3.86	4.72	4.47	3.60	SD.....	4.32	4.87	4.12	3.64
DE.....	5.32	5.85	5.53	5.15	MO.....	4.69	5.00	4.63	4.02	TN.....	3.97	4.27	4.33	3.72
DC.....	6.36	6.56	6.19	(x)	MT.....	4.66	4.22	4.60	5.49	TX.....	3.92	5.08	4.58	3.70
FL.....	3.76	6.51	4.63	3.41	NE.....	3.78	4.18	3.66	3.41	UT.....	3.06	3.42	3.47	2.47
GA.....	4.32	4.97	4.36	3.87	NV.....	4.80	5.30	5.56	4.15	VT.....	6.46	7.48	7.08	5.50
HI.....	14.97	17.28	14.01	14.56	NH.....	6.06	6.52	6.12	4.87	WA.....	5.76	6.46	5.87	5.27
ID.....	5.30	6.45	5.52	4.72	NJ.....	6.14	6.84	6.24	5.00	WV.....	4.73	4.97	4.77	4.49
IL.....	4.19	4.38	4.06	4.01	NM.....	3.92	4.84	4.27	3.36	WY.....	4.95	5.57	4.91	4.41
IN.....	3.86	4.17	3.98	3.61	NY.....	5.73	6.25	5.46	4.81					
IA.....	4.18	4.64	4.28	3.69	NC.....	4.74	5.42	4.96	4.41					

X Not applicable.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual (copyright).

NO. 986. WATER POWER—DEVELOPED AND UNDEVELOPED CAPACITY, BY DIVISION: 1950 TO 1983

(In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects. Also excludes capacity precluded from development due to wild and scenic river legislation. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175)

DIVISION	DEVELOPED INSTALLED CAPACITY							ESTIMATED UNDEVELOPED CAPACITY						
	1950	1960	1970	1975	1980	1982	1983	1950	1960	1970	1975	1980	1982	1983
U.S.....	18.7	33.2	52.0	57.0	64.4	65.9	66.7	87.6	114.2	128.0	113.7	129.9	77.6	79.1
New England.....	1.2	1.5	1.5	1.5	1.5	1.5	1.6	3.3	2.9	3.3	3.3	4.7	4.6	4.5
Middle Atlantic.....	1.7	2.5	4.3	4.2	4.3	4.3	4.3	6.6	7.5	4.5	4.3	5.1	5.4	5.4
E. No. Central.....	.9	.9	.9	.9	.9	1.1	1.1	2.3	3.0	1.6	1.4	2.0	1.9	1.8
W. No. Central.....	.6	1.6	2.7	2.8	2.8	2.9	2.8	5.8	6.4	4.4	2.1	3.4	3.0	3.0
South Atlantic.....	2.8	3.8	5.3	5.8	5.9	5.9	6.0	8.2	8.4	9.6	8.4	9.6	8.5	8.5
E. So. Central.....	2.7	3.8	5.2	5.5	5.6	5.6	5.8	4.7	4.6	3.8	3.1	3.3	3.0	2.9
W. So. Central.....	.5	.9	1.9	2.3	2.3	2.3	2.3	3.6	3.9	3.3	2.7	4.7	5.1	5.3
Mountain.....	2.3	4.6	6.2	6.9	7.4	7.7	7.9	23.4	23.6	26.7	19.6	34.2	18.2	18.5
Pacific.....	6.0	13.6	23.9	27.2	33.7	34.6	34.9	29.8	53.8	70.9	68.8	62.9	27.9	29.2

Source: 1950-1975, U.S. Federal Power Commission, *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, Jan. 1, 1976; thereafter, U.S. Federal Energy Regulatory Commission, *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, Jan. 1, 1980, and unpublished data.

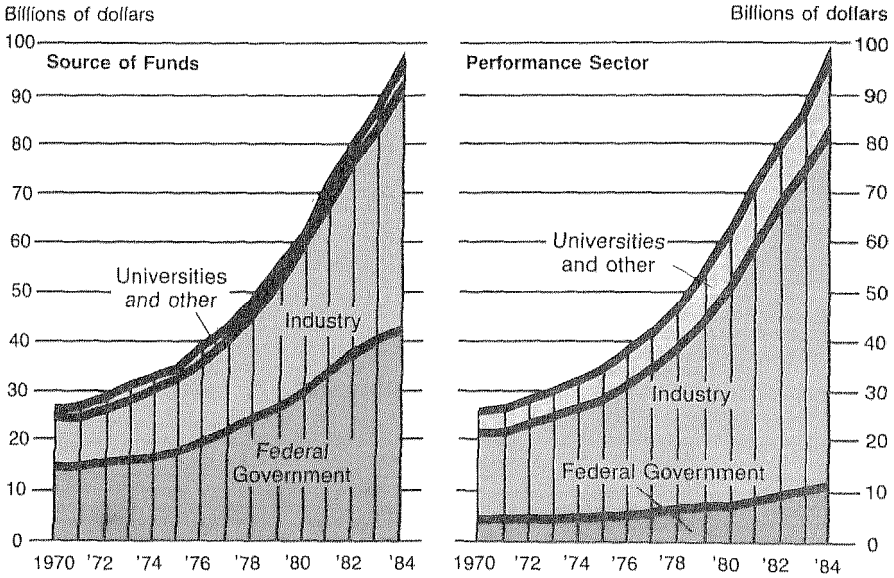
NO. 987. SOLAR COLLECTOR SHIPMENTS, BY TYPE, END-USE, AND MARKET SECTOR: 1974 TO 1983

(In thousands of square feet, except number of manufacturers. Solar collector is a device for intercepting sunlight, converting the sunlight to heat, and carrying the heat to where it will be either used or stored)

YEAR	Number of manufacturers	Total shipments ¹	COLLECTOR TYPE		END USE			MARKET SECTOR		
			Low temperature	Medium temperature, special, other	Pool heating	Hot water	Space heating	Residential	Commercial	Industrial
1974.....	45	1,274	1,137	137	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1975.....	131	3,743	3,026	717	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976.....	186	5,801	3,876	1,925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977.....	321	10,312	4,743	5,569	6,334	1,713	1,699	7,978	1,680	105
1978.....	340	10,860	5,872	4,988	5,970	2,513	1,736	8,095	1,848	263
1979.....	349	14,251	8,395	5,857	8,551	2,958	1,722	11,387	2,015	314
1980.....	276	19,398	12,233	7,165	12,029	4,790	1,688	16,077	2,417	488
1981.....	282	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982.....	274	18,821	7,476	11,145	7,035	7,444	2,367	13,729	3,789	560
1983.....	224	16,828	4,953	11,975	4,839	9,923	2,082	11,780	3,039	1,665

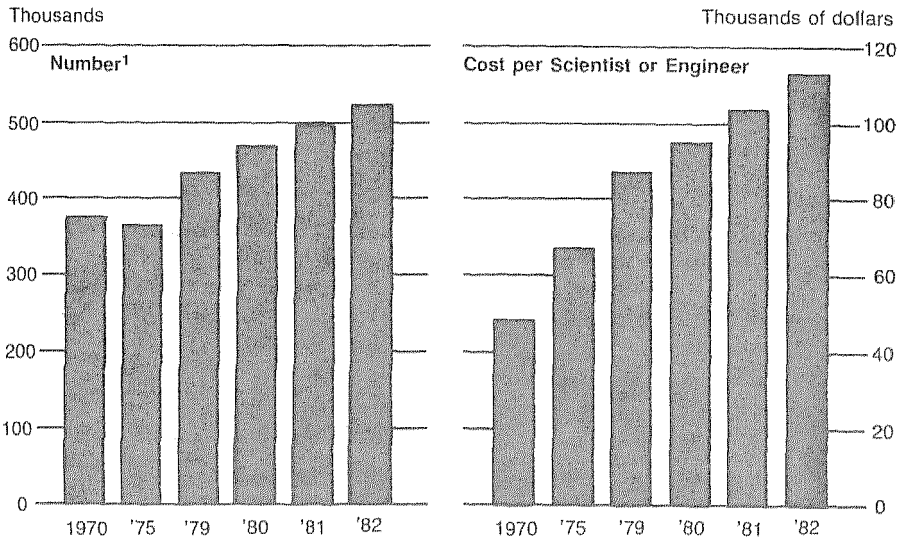
NA Not available. ¹ Includes other end uses and market sectors not shown separately.Source: U.S. Energy Information Administration, *Solar Collector Manufacturing Activity*, annual.

Figure 21.1
Research and Development Funds: 1970 to 1984



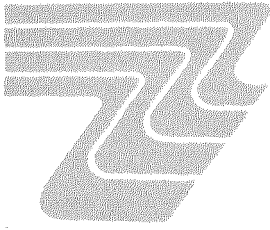
Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 989 and 990.

Figure 21.2
Research and Development Scientists and Engineers in Private Industry: 1970 to 1982



¹ Average full-time equivalent employment.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1003.



This section presents statistics on scientific, engineering, and technological resources, with emphases on patterns of research and development (R&D) funding and on scientific, engineering, and technical personnel and education. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Current NSF publications containing data on funds for research and development and on scientific and engineering personnel include *Science Resources Studies Highlights*; and annual, biennial, and special reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science/Engineering: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the United States*; *U.S. Scientists and Engineers*; *Employment Attitudes of Recent Science and Engineering Graduates*; *Science and Engineering Employment*; *Characteristics of Experienced Scientists and Engineers*; *Scientists, Engineers, and Technicians in Private Industry*; *Science and Engineering Personnel: A National Overview*; *Science and Technology Data Book*; *Women and Minorities in Science and Engineering*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

The National Science Board's biennial *Science Indicators* publication contains data and analyses of international and domestic science and technology, including measures of their outputs and impacts. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

Research and development outlays.—NSF defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDC's) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

Scientists, engineers, and technicians.—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

NO. 988. RESEARCH AND DEVELOPMENT (R&D)—OUTLAYS: 1955 TO 1984

[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (-) indicates decrease]

YEAR OR PERIOD	CURRENT DOLLARS (bil. dol.)			CONSTANT (1972) DOLLARS		ANNUAL PERCENT CHANGE ³		PERCENT OF TOTAL R AND D OUTLAYS					
	Total ¹	De- fense space relat- ed	Other	Total (bil. dol.)	Per- cent of GNP ²	Cur- rent dol- lars	Con- stant dol- lars	Federally funded defense-space-related			Other outlays		
								Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955	6.2	3.0	3.1	10.1	1.5	9.4	7.2	49	48	1	51	43	8
1956	8.4	4.2	4.2	13.3	2.0	35.5	31.4	50	49	1	50	42	8
1957	9.8	5.3	4.5	15.0	2.2	16.9	13.0	54	53	1	47	38	9
1958	10.7	5.8	4.9	16.2	2.4	9.6	7.6	54	53	1	47	37	10
1959	12.4	7.0	5.3	18.3	2.5	15.4	12.8	57	54	3	43	35	8
1960	13.5	7.4	6.1	19.6	2.7	9.4	7.8	55	52	3	45	35	9
1961	14.3	8.0	6.3	20.6	2.7	5.9	4.8	56	50	6	44	35	9
1962	15.4	8.5	6.9	21.8	2.7	7.5	5.7	55	48	7	45	36	9
1963	17.1	9.4	7.7	23.7	2.9	10.8	9.1	55	41	14	45	34	11
1964	18.9	10.6	8.3	25.9	3.0	10.5	8.9	56	37	19	44	34	9
1965	20.0	10.8	9.2	26.9	2.9	6.3	4.0	54	33	21	46	35	11
1966	21.8	11.4	10.5	28.4	2.9	9.0	5.7	52	33	19	48	36	12
1967	23.1	11.3	11.8	29.2	2.9	6.0	2.8	49	35	14	51	38	13
1968	24.6	11.8	12.8	29.8	2.8	6.3	2.0	48	35	13	52	39	13
1969	25.6	11.5	14.1	29.6	2.7	4.2	—	45	34	11	55	42	13
1970	26.1	11.2	14.9	28.6	2.6	2.0	-3.3	43	33	10	57	43	14
1971	26.7	10.9	15.7	27.8	2.5	2.1	-2.8	41	32	9	59	44	15
1972	28.5	11.7	16.8	25.5	2.4	6.8	2.4	32	30	8	62	47	15
1973	30.7	11.7	19.0	28.1	2.3	7.9	2.4	38	30	8	65	49	16
1974	32.9	11.5	21.4	28.8	2.3	7.0	-1.3	35	27	8	66	49	17
1975	35.2	12.0	23.2	28.2	2.3	7.1	-2.1	34	26	8	66	49	17
1976	39.0	13.3	25.7	29.5	2.3	10.8	4.8	34	26	8	66	49	17
1977	42.8	14.1	28.7	30.5	2.2	9.6	3.4	33	25	8	67	50	17
1978	48.1	14.9	33.2	32.0	2.2	12.5	4.9	31	24	7	69	50	19
1979	54.9	16.5	38.5	33.6	2.3	14.1	5.0	30	23	7	70	51	19
1980	62.6	18.2	44.5	35.1	2.4	14.0	4.5	29	22	7	71	53	18
1981	71.9	21.6	50.3	36.9	2.4	14.8	4.9	30	23	7	70	54	16
1982	80.3	25.7	54.6	38.7	2.6	11.7	5.1	32	25	7	68	54	14
1983	87.7	28.9	58.7	40.6	2.6	9.2	4.7	33	27	6	67	54	13
1984, est.	97.0	33.9	63.0	43.0	2.7	10.6	5.9	35	29	6	65	54	11
Annual average:													
1960-1969	19.4	10.1	9.4	25.8	2.8	7.8	5.0	53	40	13	47	36	11
1970-1979	36.5	12.8	23.8	29.7	2.3	8.0	1.3	36	28	8	64	48	16
1980-1984	79.9	25.7	54.2	38.9	2.5	12.1	5.0	32	25	7	68	54	14

¹ Includes revisions not shown in detail. ² GNP=Gross national product. ³ Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual, and unpublished data.

NO. 989. RESEARCH AND DEVELOPMENT (R&D)—SOURCE OF FUNDS AND PERFORMANCE SECTION: 1960 TO 1984

[In millions of dollars. See headnote, table 990]

YEAR	Total	SOURCE OF FUNDS				PERFORMANCE SECTION				
		Federal Govt.	Indus-try	Univ., col-leges	Other ¹	Federal Govt.	Indus-try	Univ., col-leges	Associat-ed FFRDC's ¹	Other ²
Current dollars:										
1960	13,523	8,738	4,516	149	120	1,726	10,509	646	360	282
1965	20,044	13,012	6,546	267	217	3,093	14,185	1,474	629	663
1970	26,134	14,892	10,444	461	337	4,079	18,067	2,335	737	916
1975	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276
1980	62,618	29,451	30,911	1,323	933	7,632	44,505	6,060	2,246	2,175
1981	71,912	33,402	35,868	1,523	998	8,425	51,858	6,819	2,436	2,325
1982	80,317	37,053	40,525	1,683	1,053	9,141	59,011	7,261	2,479	2,425
1983	87,678	40,328	44,350	1,860	1,140	10,228	64,600	7,675	2,600	2,575
1984, est.	96,975	44,270	49,375	2,080	1,250	10,800	72,000	8,605	2,770	2,800
Constant (1972) dollars:										
1960	19,635	12,673	6,573	214	175	2,481	15,297	928	517	412
1965	26,896	17,443	8,806	356	291	4,124	19,077	1,965	838	892
1970	28,613	16,316	11,421	506	370	4,481	19,756	2,564	909	1,003
1975	28,153	14,537	12,579	608	429	4,344	19,229	2,766	801	1,013
1980	35,193	16,541	17,324	745	523	4,286	24,944	3,411	1,265	1,217
1981	36,859	17,124	18,443	781	511	4,321	26,575	3,497	1,275	1,191
1982	38,742	17,841	19,588	806	507	4,379	28,524	3,478	1,188	1,173
1983	40,568	18,622	20,565	855	526	4,697	29,857	3,526	1,194	1,194
1984, est.	42,951	19,577	21,905	918	553	4,756	31,944	3,788	1,219	1,244

¹ Federally-funded R & D centers. ² Nonprofit institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

**NO. 990. RESEARCH AND DEVELOPMENT (R & D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE:
1970 TO 1984**

(In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125.)

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1970	1975	1977	1978	1979	1980	1981	1982	1983, est.	1984, est.
Total R & D¹	26,134	35,213	42,783	48,129	54,933	62,618	71,912	80,317	87,878	96,975
In 1972 dollars	28,613	28,153	30,506	32,002	33,612	35,133	36,859	38,742	40,588	42,951
Percent Federal as source	57.0	51.4	50.5	49.6	48.8	47.0	46.4	46.1	46.0	45.7
Percent of gross national product	2.6	2.3	2.2	2.2	2.3	2.4	2.4	2.6	2.6	2.7
Federal Government	4,079	5,354	6,012	6,811	7,417	7,632	8,425	9,141	10,228	10,800
Industry	18,067	24,187	29,825	33,304	38,226	44,505	51,858	59,011	64,800	72,000
Federal funds	7,779	8,605	10,485	11,189	12,518	14,029	16,382	19,059	20,909	23,350
Industry funds	10,288	15,582	19,340	22,115	25,708	30,476	35,476	39,952	43,700	48,650
Universities and colleges	2,335	3,409	4,067	4,825	5,361	6,060	6,818	7,261	7,875	8,605
Federal funds	1,648	2,288	2,726	3,059	3,595	4,094	4,559	4,749	4,900	5,500
Industry funds	61	113	139	170	193	235	288	326	375	425
University and college funds ²	461	749	888	1,037	1,200	1,323	1,523	1,683	1,860	2,080
Other nonprofit institutions funds ²	165	259	314	359	373	408	448	503	540	600
Universities and colleges, associated										
federally funded R & D centers	737	987	1,384	1,717	1,935	2,246	2,486	2,479	2,600	2,770
Other nonprofit institutions	916	1,276	1,495	1,672	1,994	2,175	2,325	2,425	2,575	2,800
Federal funds	649	875	987	1,100	1,350	1,450	1,550	1,625	1,700	1,850
Industry funds	95	125	150	165	180	200	225	250	275	300
Other ³	172	276	358	407	464	525	550	550	600	650
Total research, basic and applied	9,269	12,471	15,282	17,236	19,629	22,149	26,129	28,330	30,507	33,250
In 1972 dollars	10,160	10,017	10,893	11,461	12,009	12,439	13,395	13,641	14,087	14,703
Percent Federal as source	60.1	56.8	56.3	56.1	55.6	54.8	52.5	50.6	49.4	48.6
Federal Government	1,904	2,464	2,958	3,221	3,481	3,686	4,034	4,194	4,577	4,800
Industry	4,029	5,300	6,547	7,335	8,383	9,775	12,366	13,950	15,200	16,550
Federal funds	1,207	1,287	1,535	1,680	1,820	2,180	2,668	2,800	3,025	3,075
Industry funds	2,822	4,013	5,012	5,655	6,563	7,595	9,698	11,050	12,175	13,475
Universities and colleges	2,223	3,261	3,667	4,389	5,077	5,717	6,441	6,846	7,230	8,130
Federal funds	1,584	2,210	2,614	2,937	3,435	3,886	4,334	4,514	4,650	5,240
Industry funds	58	106	125	155	177	215	262	296	340	385
University and college funds ²	448	702	830	959	1,115	1,233	1,422	1,563	1,730	1,940
Other nonprofit institutions funds ²	155	243	298	338	350	383	423	473	510	565
Universities and colleges, associated										
federally funded R & D centers	485	573	867	1,116	1,298	1,496	1,663	1,665	1,725	1,845
Other nonprofit institutions	628	873	1,043	1,175	1,390	1,505	1,625	1,675	1,775	1,925
Federal funds	409	545	635	720	880	930	1,010	1,050	1,100	1,185
Industry funds	77	103	123	135	145	160	180	200	220	240
Other ³	142	225	285	320	365	415	435	425	455	490
Total basic research	3,549	4,608	5,537	6,392	7,257	8,089	9,217	9,886	10,610	11,850
In 1972 dollars	3,895	3,720	3,939	4,250	4,438	4,543	4,727	4,749	4,886	5,229
Percent of total R & D	13.6	13.1	12.9	13.3	13.2	12.9	12.8	12.3	12.1	12.2
Percent Federal as source	70.1	68.1	69.0	69.5	69.5	66.7	67.7	66.6	65.7	65.6
Federal Government	577	734	914	1,029	1,089	1,182	1,302	1,465	1,650	1,800
Industry	602	730	911	1,035	1,158	1,325	1,641	1,850	2,050	2,300
Federal funds	158	157	210	250	265	290	328	350	375	425
Industry funds	444	573	701	785	893	1,035	1,313	1,500	1,675	1,875
Universities and colleges	1,796	2,410	2,800	3,176	3,812	4,026	4,576	4,851	5,135	5,850
Federal funds	1,296	1,694	2,007	2,264	2,572	2,851	3,248	3,393	3,525	4,030
Industry funds	40	72	79	99	113	135	167	180	225	260
University and college funds ²	350	478	527	605	711	805	909	983	1,075	1,220
Other nonprofit institutions funds ²	110	166	187	208	218	235	252	285	310	340
Universities and colleges, associated										
federally funded R & D centers	269	309	402	567	718	786	863	870	900	975
Other nonprofit institutions	305	425	510	585	680	770	835	850	875	925
Federal funds	189	245	290	335	400	450	495	510	520	545
Industry funds	44	60	70	80	85	95	105	115	125	135
Other ³	72	120	150	170	195	225	235	225	230	245
Total development	16,865	22,742	27,501	30,893	35,304	40,469	45,783	51,987	57,171	63,725
In 1972 dollars	18,453	18,136	19,623	20,541	21,603	22,694	23,464	25,101	26,481	28,448
Percent of total R & D	64.5	64.6	64.3	64.2	64.3	64.6	63.7	64.7	65.2	65.7
Percent Federal as source	55.3	48.5	47.2	46.0	45.0	42.7	43.0	43.7	44.2	44.1

¹ Basic research, applied research, and development. ² Includes State and local government funds received by these institutions and used for research and development. ³ Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

**NO. 991. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY BUDGET FUNCTION:
1974 TO 1984**

[In millions of dollars. For years ending June 30 except, beginning 1977 ending Sept. 30. Excludes R&D plant. Data for 1974-77 are shown in obligations, and for 1978-84 are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984, est.
Total	17,410	19,039	20,780	23,450	25,976	28,208	29,773	33,735	36,115	38,788	44,367
National defense	9,016	9,679	10,430	11,864	12,899	13,791	14,946	18,413	22,070	24,936	29,275
Health	2,068	2,170	2,351	2,623	2,968	3,401	3,684	3,871	3,869	4,288	4,801
Energy	759	1,363	1,849	2,562	3,134	3,481	3,603	3,501	3,012	2,578	2,565
Space research and technology	2,702	2,764	3,130	2,832	2,839	3,136	2,738	3,111	2,584	2,134	2,286
General science	749	813	858	974	1,050	1,119	1,233	1,340	1,359	1,502	1,717
Natural resources and environment	516	624	683	753	904	1,010	999	1,061	965	952	985
Transportation	693	635	631	708	768	798	888	870	791	876	1,091
Agriculture	313	342	383	457	501	552	585	659	693	745	760
Education, training, employment	236	239	255	230	345	354	468	298	228	189	203
Veterans benefits and services	85	95	98	107	111	123	126	143	139	157	220
International affairs	24	29	42	66	57	117	127	160	165	177	225
Commerce and housing credit	51	65	69	71	77	93	102	106	104	107	108
Community and regional develop	82	93	109	101	92	127	119	104	63	44	47

¹ Includes functions not shown separately. ² Includes social services.

Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

NO. 992. FEDERAL OBLIGATIONS FOR RESEARCH, BY FIELD OF SCIENCE: 1974 TO 1984

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. See headnote table 991]

FIELD	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, est.	1984, est.
Research, total	6,175	6,730	7,619	8,514	9,607	10,535	11,597	12,213	13,022	14,154	14,663
Basic	2,388	2,588	2,768	3,259	3,899	4,193	4,674	5,041	5,482	6,086	6,615
Applied	3,788	4,141	4,852	5,256	5,908	6,342	6,923	7,172	7,540	8,068	8,048
Life sciences	2,265	2,455	2,650	3,008	3,427	3,848	4,192	4,436	4,746	5,133	5,251
Engineering	1,564	1,718	2,069	2,113	2,405	2,572	2,830	3,072	3,387	3,502	3,487
Physical sciences	1,016	1,097	1,259	1,530	1,646	1,793	2,001	2,221	2,500	2,852	3,179
Environmental sciences	636	727	769	906	1,025	1,101	1,261	1,121	1,148	1,219	1,189
Social sciences	292	302	393	426	490	527	524	497	386	426	432
Mathematics and computer sciences	114	125	158	196	216	210	241	279	350	399	482
Psychology	133	139	144	156	193	197	199	209	218	241	272
Other sciences	154	167	179	179	206	287	350	379	287	383	372

NO. 993. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1974 TO 1984

[In millions of dollars except percent. For years ending June 30 except, beginning 1980, ending Sept. 30. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R&D expenditures. Minus sign (-) indicates decline]

AGENCY	1974	1975	1980	1981	1982	1983, est.	1984, est.	PERCENT CHANGE		
								1981-82	1982-83	1983-84
Total	17,410	19,039	29,830	33,104	36,433	38,710	45,497	10.1	6.2	17.5
Dept. of Defense	8,420	9,012	13,981	16,509	20,623	23,125	29,736	24.9	12.1	28.6
National Aeronautics and Space Admin.	3,002	3,064	3,234	3,593	3,078	2,416	2,463	-14.3	-21.5	1.9
Dept. of Commerce	181	215	343	328	336	339	234	2.4	.9	-31.0
Dept. of Energy	1,489	2,047	4,764	4,816	4,708	4,805	4,517	-4.3	-2.2	-1.9
Dept. of Health and Human Services	2,290	2,398	3,780	3,927	3,941	4,367	4,435	4.4	9.8	2.5
National Science Foundation	556	595	802	962	975	1,060	1,240	1.4	6.7	17.0
Dept. of Agriculture	379	420	688	774	797	853	848	3.0	7.0	-6
Dept. of Transportation	370	312	361	416	310	394	520	-25.5	27.1	32.0
Dept. of the Interior	192	303	411	427	381	397	328	-10.8	4.2	-17.4
Environmental Protection Agency	169	258	345	326	335	241	208	2.8	-28.1	-13.7
Nuclear Regulatory Commission	42	64	183	220	220	210	200	~	-4.5	-4.8
Veterans Administration	85	95	133	144	137	163	160	-4.9	19.0	-1.8
International Development and Cooperation Agency	(NA)	(NA)	149	134	200	175	207	49.3	-12.5	18.3
Dept. of Education	(X)	(X)	139	105	128	145	126	21.9	13.3	-13.1
Other agencies	234	255	447	322	263	260	277	-18.4	-1.0	6.2

- Represents zero. NA Not available. X Not applicable. ¹ Energy Research and Development Administration in 1975.

² Health, Education, and Welfare. See table 528 for complete list of agencies.

³ Included in programs for Agency for International Development.

⁴ Includes National Institute of Education, Office of the Assistant Secretary for Education and Office of Education under HEW for 1974 and 1975; Dept. of Education, 1980-1984.

Source of tables 992 and 993: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

NO. 994. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT (R&D), BY INDUSTRY, 1970 TO 1982

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

INDUSTRY	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total ¹	18,067	21,249	22,887	24,187	26,997	29,825	33,304	38,226	44,505	51,810	58,960
Aircraft and missiles	5,219	5,052	5,278	5,713	6,339	7,033	7,536	8,041	9,198	11,988	14,045
Electrical equipment	4,220	4,902	5,011	5,105	5,636	5,886	6,507	7,824	9,175	10,329	11,925
Machinery	1,729	2,549	2,985	3,186	3,487	3,880	4,283	4,825	5,901	6,818	7,879
Chemicals and allied products	1,773	2,116	2,450	2,727	3,017	3,202	3,580	4,038	4,636	5,825	6,588
Motor vehicles, transport, equipment	1,591	2,477	2,476	2,430	2,872	3,478	4,010	4,668	5,117	* 4,970	* 5,130
Professional and scientific instruments	744	961	1,075	1,173	1,331	1,571	1,998	2,505	3,029	3,614	4,047
Petroleum refining	515	498	622	693	787	918	1,060	1,262	1,552	(D)	(D)
Primary metals	275	307	358	443	506	538	560	634	728	878	1,005
Rubber products	276	426	469	467	502	491	493	577	656	(D)	(D)
Fabricated metal products	207	291	313	324	358	388	384	455	550	624	570
Food and kindred products	230	269	298	335	355	415	472	528	620	(D)	(D)
Paper and allied products	178	194	237	249	313	333	387	445	495	(D)	626
Stone, clay, and glass products	167	199	217	233	263	287	324	356	406	(D)	(D)

D Withheld to avoid disclosure. ¹ Includes industries not available separately. * Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 995. COMPANIES PERFORMING RESEARCH AND DEVELOPMENT (R&D)—SELECTED DATA, BY INDUSTRY GROUP: 1975 TO 1982

INDUSTRY GROUP	R & D FUNDS (mil. dol.)			R & D FUNDS AS PERCENT OF NET SALES			R & D SCIENTISTS/ ENGINEERS ¹ (1,000)		
	1975	1980	1982	1975	1980	1982	1975	1980	1982
Total ²	24,187	44,505	58,960	3.1	3.0	3.7	363.3	450.6	509.6
Aircraft and missiles	5,713	9,198	14,045	12.7	13.7	16.3	87.5	85.9	91.1
Electrical equipment	5,105	9,175	11,925	6.5	6.6	7.8	82.6	94.5	109.8
Machinery	3,186	5,901	7,879	4.8	5.0	6.1	52.8	62.1	78.0
Chemicals and allied products	2,727	4,636	6,588	3.7	3.6	4.2	45.2	51.4	61.6
Motor vehicles, transport, equipment	2,430	5,117	* 5,130	3.3	3.9	3.6	27.9	39.7	31.2
Professional and scientific instruments	1,173	3,029	4,047	5.9	7.5	8.9	17.9	32.8	(NA)
Petroleum refining	693	1,552	(NA)	.7	.8	(NA)	8.4	10.8	15.6
Primary metals	443	728	1,005	.8	.7	1.1	6.3	8.1	8.4
Rubber products	467	656	(NA)	2.5	2.2	(NA)	8.4	(NA)	8.1
Fabricated metal products	324	550	570	1.2	1.4	1.3	7.4	7.6	8.2
Food and kindred products	335	620	(NA)	.4	.4	(NA)	6.8	7.2	7.4
Paper and allied products	249	495	626	.9	1.0	1.2	5.0	7.4	8.4
Stone, clay, and glass products	233	406	(NA)	1.2	1.4	(NA)	4.5	5.4	5.1

NA Not available. ¹ As of January. ² Includes industries not available. * Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 996. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1970 TO 1982

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Minus sign (—) indicates decrease]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total Federal obligations	3,237	3,839	4,480	4,547	5,403	6,490	7,472	7,604	8,298	7,704	8,702
Annual percent change ¹	—6.5	—7.4		1.5	18.8	20.1	15.1	1.8	9.1	—7.2	13.0
Academic science/engineering obligations	2,188	2,464	2,737	2,806	2,960	3,351	3,960	4,473	4,803	5,072	5,245
Percent of total	67.6	64.2	61.1	61.7	54.8	51.6	53.0	58.6	57.9	65.8	60.3
Research and development	1,447	1,871	2,085	2,246	2,431	2,803	3,386	3,674	4,160	4,410	4,553
Research and development plant	45	43	29	45	24	36	34	32	38	28	31
Other science/engineering activities	696	650	623	515	505	512	540	567	606	634	662
Nonscience engineering activities	1,049	1,375	1,743	1,741	2,443	3,138	3,512	3,131	3,495	2,632	3,457

¹ For 1970, change from 1969, for 1973, change from 1972.

Source: U.S. National Science Foundation, *Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

NO. 997. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—SELECTED COUNTRIES: 1901 TO 1983

[Presented by location of award-winning research and by date of award]

COUNTRY	1901-1983				1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1983
	Total	Physics	Chemistry	Physiology/Medicine						
Total	359	123	100	136	52	41	49	74	92	51
United States.....	134	49	26	59	3	3	14	38	41	35
United Kingdom.....	66	21	24	21	7	8	11	14	20	6
Germany, Fed. Rep. of ¹	51	14	25	12	15	12	11	4	8	1
France.....	21	8	6	7	10	3	2	—	5	1
Soviet Union.....	10	7	1	2	2	—	—	4	3	1
Other countries.....	77	24	18	35	15	15	11	14	15	7

— Represents zero. ¹ Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

NO. 998. NATIONAL RESEARCH AND DEVELOPMENT EXPENDITURES AS A PERCENT OF GROSS NATIONAL PRODUCT, BY COUNTRY: 1965 TO 1983

YEAR	United States	France ¹	Germany, ² Fed. Rep.	Japan	United Kingdom ¹	Soviet Union ¹	YEAR	United States	France ¹	Germany, ² Fed. Rep.	Japan	United Kingdom ¹	Soviet Union
1965.....	2.90	2.01	1.73	1.52	(NA)	2.85	1975.....	2.27	1.80	2.38	1.96	2.05	3.69
1966.....	2.89	2.06	1.81	1.46	2.31	2.88	1976.....	2.27	1.77	2.29	1.95	(NA)	3.55
1967.....	2.89	2.13	1.97	1.52	2.29	2.91	1977.....	2.23	1.76	2.32	1.93	(NA)	3.46
1968.....	2.82	2.08	1.97	1.60	2.25	(NA)	1978.....	2.23	1.76	2.45	1.96	2.13	3.47
1969.....	2.72	1.94	2.05	1.64	2.22	3.03	1979.....	2.27	1.81	2.59	2.06	(NA)	3.44
1970.....	2.63	1.91	2.18	1.81	(NA)	3.23	1980.....	2.38	1.84	2.65	2.18	(NA)	3.67
1971.....	2.47	1.90	2.38	1.85	(NA)	3.29	1981.....	2.45	2.01	2.70	2.36	2.32	3.66
1972.....	2.40	1.86	2.33	1.86	2.05	3.58	1982.....	2.58	2.06	2.79	2.47	(NA)	3.65
1973.....	2.31	1.76	2.22	1.90	(NA)	3.66	1983.....	2.65	2.16	2.81	(NA)	(NA)	(NA)
1974.....	2.29	1.79	2.26	1.97	(NA)	3.64							

NA Not available. ¹ Percent of Gross Domestic Product. ² Data for Federal Republic of Germany include R&D performed abroad.

Source: U.S. National Science Foundation, *Science Indicators*, biennial; and unpublished data.

NO. 999. RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES IN SCIENCE AND ENGINEERING AT UNIVERSITIES AND COLLEGES: 1975 TO 1982

[In millions of dollars. Estimates for nonrespondents account for less than 7 percent of the total]

CHARACTERISTIC	1975	1980	1981	1982	CHARACTERISTIC	1975	1980	1981	1982
Total	3,409	6,060	6,818	7,261	Field:				
In 1972 dollars ¹	2,765	3,412	3,491	3,469	Life sciences.....	1,901	3,218	3,672	3,970
Basic research.....	2,410	4,026	4,576	4,851	Engineering.....	381	864	960	1,025
Applied R&D.....	999	2,034	2,242	2,410	Physical sciences.....	350	678	786	823
Source of funds:					Environmental sciences.....	255	509	552	580
All Governments.....	2,620	4,587	5,099	5,335	Social sciences and other sciences.....	366	487	517	507
Institutions' own funds.....	417	829	983	1,098	Mathematics and computer science.....	85	193	222	244
Industry.....	113	235	288	326	Psychology.....	80	111	129	132
Other.....	259	409	448	502					

¹ Based on GNP implicit price deflator, see text, p. 427.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

NO. 1000. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT: 1965 TO 1983

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted. DOD=Dept. of Defense. FFRDC's=federally funded R&D centers]

SECTOR	1965	1970	1975	1977	1978	1979	1980	1981	1982 ¹	1983 ¹
Total	494.5	546.6	532.7	568.2	594.2	622.0	658.7	691.4	723.0	750.0
Industry (excl. social scientists) ²	348.4	375.6	363.8	393.6	414.2	437.2	469.2	499.7	530.6	555.9
Universities and colleges, total.....	53.4	68.5	69.8	74.4	76.6	78.6	81.2	83.3	84.0	85.8
Scientists and engineers.....	40.4	50.3	51.2	54.4	56.0	56.9	57.9	58.9	59.5	60.3
Graduate students.....	13.0	18.2	18.6	20.0	20.6	21.7	23.3	24.4	24.5	25.5
Federal Government (incl. DOD).....	61.8	69.8	63.4	62.2	64.3	64.6	65.6	66.0	66.0	66.0
University-associated FFRDC's.....	11.1	11.5	12.7	14.0	14.1	14.1	15.2	15.4	15.4	15.3
Other nonprofit institutions ²	18.9	21.2	23.0	24.0	25.0	27.5	27.5	27.0	27.0	27.0

¹ Estimated. ² Includes professional R&D personnel employed at FFRDC's administered by industry and other nonprofit institutions. ³ Includes estimate for R&D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

No. 1001. SCIENTISTS AND ENGINEERS, BY FIELD, LABOR FORCE STATUS, AND SEX: 1978 TO 1982

[In thousands, except percent. Represents the total science and engineering population in the United States]

FIELD	1978			1980			1982		
	Total		In labor force	Total		In labor force	Total		In labor force
	Number	Percent female		Number	Percent female		Number	Percent female	
Total, all fields	2,822	9.8	2,661	3,083	11.5	2,917	3,506	12.5	3,327
Engineers, total.....	1,859	1.9	1,561	1,800	3.0	1,701	1,987	3.3	1,883
Scientists, total.....	1,183	21.1	1,100	1,283	23.4	1,218	1,519	24.5	1,444
Life scientists.....	288	17.1	251	313	19.2	295	365	21.5	342
Computer specialists.....	184	23.8	179	215	28.7	210	309	27.3	302
Physical scientists.....	226	9.5	213	235	10.3	220	244	10.6	239
Social scientists.....	222	28.6	207	229	29.5	214	264	30.0	250
Psychologists.....	131	35.9	125	137	39.4	132	149	40.9	143
Environmental scientists.....	74	10.8	70	84	14.2	79	95	14.9	90
Mathematical scientists.....	59	26.6	55	70	29.6	66	86	32.6	81

Source: National Science Foundation, *U.S. Scientists and Engineers*, and unpublished data.**No. 1002. CHARACTERISTICS OF EMPLOYED SCIENTISTS AND ENGINEERS: 1982**

[Percent distribution, except as indicated. Represents the total science and engineering employment in the United States]

CHARACTERISTIC	Total	Engineers	Life scientists	Computer specialists	Physical scientists	Social scientists	Psychologists	Environmental scientists	Mathematical scientists
Total (1,000)	3,253	1,847	337	299	227	237	138	87	79
Male.....	88.0	96.8	79.6	73.7	90.2	71.4	60.0	85.8	68.1
Female.....	12.0	3.2	20.4	26.3	9.8	28.6	40.0	14.2	31.9
Highest degree:									
Doctorate.....	10.8	3.2	25.1	3.0	28.4	22.8	32.8	18.9	20.3
Master's.....	26.3	21.0	29.8	27.8	31.4	33.8	45.2	32.1	53.0
Bachelor's.....	52.4	58.1	43.2	68.4	39.8	42.0	21.5	48.3	25.2
Other.....	10.5	17.8	1.9	.8	.4	1.3	.5	.7	1.4
Type of employer:									
Business, industry.....	67.2	79.8	32.7	79.3	59.7	43.5	32.7	62.2	33.1
Educational institutions.....	12.0	2.7	32.6	5.6	21.3	27.7	37.7	12.4	47.0
Nonprofit organizations.....	3.4	1.3	6.3	2.8	3.9	7.6	18.8	1.0	2.6
Federal Government.....	8.7	7.1	16.9	7.0	10.6	9.3	2.4	17.1	13.6
Military.....	.5	.6	.2	.5	.3	.4	.6	1.1	.1
Other government.....	5.5	4.8	10.1	3.7	2.8	10.1	5.9	4.9	2.0
Other.....	2.7	3.6	1.2	1.2	1.4	1.4	2.0	1.3	1.5

Source: U.S. National Science Foundation, *U.S. Scientists and Engineers*, 1982.**No. 1003. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT EMPLOYMENT AND COST, BY INDUSTRY: 1970 TO 1982**[Data are estimates; for 1970 on man-years basis; thereafter, on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Average FTE of scientists and engineers (1,000)	375.6	358.6	354.0	358.9	361.7	363.8	373.6	393.6	414.2	437.3	469.2	498.8	522.7
Chemicals ¹	41.4	41.9	41.0	41.4	43.5	44.6	45.4	47.4	49.2	50.7	53.1	58.2	64.4
Machinery.....	42.5	43.2	45.0	48.7	51.9	54.3	55.5	56.6	59.0	61.2	65.7	72.6	76.2
Electrical equipment ²	96.2	87.7	84.5	84.0	82.8	81.5	82.2	84.3	84.7	89.8	100.7	108.4	111.9
Motor vehicles ³	26.9	29.0	29.8	29.6	28.6	27.5	28.6	32.0	35.5	38.5	38.1	33.9	31.3
Aircraft and missiles.....	85.2	74.5	71.5	71.4	69.1	67.2	69.5	77.0	84.3	88.2	90.6	93.2	95.3
Other industries.....	83.4	82.3	82.2	83.8	86.0	88.5	92.4	96.3	101.5	110.9	121.0	132.5	143.6
Cost per scientist or engineer (\$1,000)	48.1	51.1	55.3	59.2	63.3	66.5	72.2	75.8	80.4	87.4	94.9	103.9	112.8
Chemicals ¹	42.8	43.7	47.1	51.1	56.3	60.9	65.5	67.6	72.8	79.6	87.4	96.7	102.4
Machinery.....	40.7	43.1	48.0	52.4	57.5	59.9	62.8	68.6	72.6	78.9	89.9	93.9	103.2
Electrical equipment ²	43.9	50.1	55.4	58.4	60.7	62.7	66.6	69.9	76.8	87.2	91.1	95.3	106.6
Motor vehicles ³	59.6	61.0	67.4	83.7	86.6	88.4	100.4	108.6	113.0	121.2	134.3	148.6	163.9
Aircraft and missiles.....	61.3	65.5	69.2	70.8	78.4	85.1	91.3	91.4	93.3	101.6	128.4	147.4	147.4
Other industries.....	42.4	43.6	46.5	49.6	54.5	56.7	61.1	65.9	72.8	79.6	86.6	91.3	93.3

¹ Includes allied products. ² Includes communication. ³ And other transportation equipment.Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1004. CIVILIAN EMPLOYMENT OF SCIENTISTS, ENGINEERS, AND TECHNICIANS IN PRIVATE INDUSTRY, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1982

[In thousands. Covers wage and salary workers]

OCCUPATION	Total	Min- ing ¹	Con- struction	Manufac- turing	Trans- portation	Com- muni- cations	Pub- lic utili- ties	Trade	Fi- nance, insur- ance, real estate	Ser- vices
Scientists and engineers.....	1,560.4	71.9	48.6	749.4	12.0	45.6	39.7	76.1	55.8	461.3
Scientists.....	544.7	35.4	1.5	161.3	4.3	4.5	7.2	30.6	50.3	249.6
Physical scientists.....	166.3	28.1	.2	89.9	.4	(z)	1.0	2.7	.4	43.6
Life scientists.....	35.4	(z)	.2	10.0	(z)	(z)	(z)	1.0	(z)	24.2
Mathematical scientists.....	16.1	.8	(z)	8.2	(z)	(z)	(z)	.3	.8	6.0
Social scientists.....	61.6	1.3	.2	2.2	.7	.2	2.4	.4	17.8	36.4
Psychologists.....	54.8	(z)	(z)	(z)	(z)	(z)	(z)	(z)	(z)	54.8
Systems analysts, EDP.....	210.5	5.2	.9	51.0	3.2	4.3	3.8	26.2	31.3	84.6
Engineers ²	1,015.7	36.5	47.1	588.1	7.7	41.1	32.5	45.5	5.5	211.7
Civil engineers.....	87.0	1.2	18.0	8.9	1.7	.9	2.5	1.8	.7	53.3
Electrical/electronics engineers.....	286.2	3.7	6.0	162.7	1.0	29.4	18.0	11.9	.3	55.2
Mechanical engineers.....	192.1	1.9	9.4	118.8	2.2	1.9	5.6	9.6	.4	52.3
Technicians, except health².....	1,303.6	33.5	39.3	501.3	63.2	52.4	41.5	112.8	14.3	445.3
Drafters.....	285.0	7.2	18.8	112.2	.7	5.7	13.1	5.6	2.1	119.6
Electrical/electronic technicians.....	353.3	2.7	10.1	137.7	3.9	36.7	11.7	91.9	(z)	58.6
Surveyors.....	29.2	2.8	3.5	1.1	.6	.5	1.4	(z)	.2	19.1
Computer programmers.....	241.7	3.4	1.4	73.1	3.3	4.5	3.7	18.9	39.9	93.5

Z Fewer than 50. ¹ Includes oil and gas extraction. ² Includes engineers and technicians not shown separately.
Source: U.S. Bureau of Labor Statistics, unpublished data.

NO. 1005. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY FIELD: 1975 TO 1983

[In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R and D=research and development]

FIELD	1975	1980	1982	1983	FIELD	1975	1980	1982	1983
Total.....	291.4	339.3	364.4	373.9	Math. and computer scientists.....	28.5	36.0	42.3	45.6
Universities, colleges.....	278.9	324.2	349.3	358.8	Life scientists.....	113.5	133.7	146.3	151.5
Teaching staff.....	215.0	(NA)	(NA)	(NA)	Agricultural.....	14.3	15.9	16.4	16.6
Engineers ¹	27.9	33.7	36.3	37.7	Biological.....	38.2	44.8	46.7	47.9
Civil.....	4.9	5.5	6.1	6.4	Medical.....	61.0	67.1	73.0	74.9
Electrical.....	6.8	8.2	9.0	9.6	Psychologists.....	21.6	23.3	23.7	23.7
Mechanical.....	5.3	6.1	6.6	6.7	Social scientists.....	48.7	54.1	56.0	55.5
Physical and environmental science ¹	38.7	43.5	44.6	44.8	Federally funded R & D centers.....	12.5	15.1	15.1	15.1
Chemists.....	16.1	17.6	18.0	18.2	Engineers.....	5.9	6.5	6.6	6.5
Earth scientists.....	6.0	6.6	6.7	6.5	Scientists.....	6.6	8.6	8.6	8.5
Physicists.....	12.3	13.0	13.3	13.6					

NA Not available. ¹ Includes other breakdown not shown separately.

Source: U.S. National Science Foundation, *Survey of Scientific Fields and Engineering Personnel Employed in Universities and Colleges*, annual.

NO. 1006. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1970 TO 1981

[In thousands, except percent. As of October. Excludes health professional personnel]

OCCUPATIONAL GROUP	1970	1975	1978	1979	1980	1981 ¹	PERCENT FEMALE					
							1970	1975	1978	1979	1980	1981 ¹
Total.....	180.3	188.9	200.6	203.6	206.9	207.9	6.7	6.5	7.7	8.3	9.5	10.3
Scientific personnel.....	77.2	77.3	84.8	85.6	88.0	88.9	8.0	8.8	10.7	11.5	12.7	13.2
Physical sciences.....	29.8	27.1	27.5	27.6	27.6	27.4	6.4	6.6	7.9	8.4	9.5	10.0
Mathematics and statistics.....	8.6	10.0	11.2	10.9	11.1	10.9	17.4	15.9	17.6	18.7	19.8	18.9
Life sciences.....	26.9	26.4	29.3	29.5	30.5	32.4	4.1	5.1	6.6	7.5	8.7	9.8
Social sciences ²	6.6	8.0	10.1	10.3	10.5	8.9	16.2	17.6	21.3	22.2	23.3	23.1
Geography and cartography.....	3.3	2.9	3.6	4.1	4.9	5.2	8.5	7.9	9.8	11.9	14.8	15.7
Psychology.....	2.2	2.9	3.2	3.2	3.3	3.4	13.7	14.6	16.0	16.7	16.8	17.5
Engineering personnel.....	83.0	86.6	89.2	88.8	89.6	87.9	.5	.7	1.1	1.3	1.9	2.3
Computer specialists.....	20.1	25.0	26.6	29.3	29.3	31.1	21.1	19.1	20.2	20.1	23.3	24.7

¹ Excludes Tennessee Valley Authority. ² Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

No. 1007. GRADUATE SCIENCE AND ENGINEERING STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS, BY FIELD, ENROLLMENT STATUS, AND LEVEL OF STUDY: 1975 TO 1982

[In thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	STUDENTS ENROLLED FULL TIME									STUDENTS ENROLLED PART TIME		
	Total			First year			Beyond first year					
	1975	1980	1982	1975	1980	1982	1975	1980	1982	1975	1980	1982
Total	210.3	230.7	237.7	79.2	77.4	76.8	131.2	153.3	160.9	83.4	103.2	109.7
Engineering.....	37.1	42.3	49.1	16.4	15.9	17.8	20.6	26.4	31.3	27.5	29.7	31.4
Physical sciences.....	21.3	22.3	23.4	6.0	5.7	5.9	15.3	16.5	17.5	3.3	3.1	3.2
Environmental sciences.....	9.0	10.1	10.7	3.3	3.3	3.4	5.7	6.8	7.4	2.0	2.4	2.7
Mathematical/computer sciences.....	14.1	15.3	18.2	5.4	5.5	6.3	8.7	9.7	11.8	7.2	9.7	12.2
Life sciences.....	69.6	67.9	65.1	23.3	23.0	21.1	35.3	44.8	45.0	14.0	23.0	25.3
Psychology.....	19.7	21.6	21.1	5.7	5.7	5.5	14.0	15.9	15.6	7.2	7.8	7.9
Social sciences.....	49.5	51.3	49.0	19.0	18.3	16.7	30.5	33.1	32.3	22.3	27.4	27.1

Source: U.S. National Science Foundation, *Survey of Graduate Science and Engineering Students and Postdoctorates*, annual.

No. 1008. SCIENCE AND ENGINEERING DEGREES CONFERRED, BY RECIPIENTS' CHARACTERISTICS, 1975 TO 1983, AND BY SELECTED FIELDS, 1983

CHARACTERISTIC	ALL FIELDS					1983						
	1975	1979	1980	1981	1982	All fields ¹	Engineering	Physical sciences ²	Mathematics and computer sciences	Psychology	Social sciences ^{3,4}	Biological sciences ⁵
Doctorate conferred.....	32,913	31,200	30,982	31,319	31,048	31,190	2,780	3,438	986	3,307	2,185	3,732
Percent with master's degree.....	81.3	81.2	80.9	80.6	80.0	80.0	88.3	54.4	78.1	80.4	82.7	49.7
Percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male.....	78.1	71.4	69.7	68.5	67.6	66.4	95.5	86.4	84.9	82.5	71.5	67.0
Female.....	21.9	28.6	30.3	31.5	32.4	33.6	4.5	13.6	15.1	17.5	28.5	33.0
White ⁶	79.8	83.3	84.6	85.3	86.4	86.8	76.1	87.9	85.6	89.6	86.4	90.1
Black and other ⁶	12.1	10.9	10.5	10.6	11.1	10.7	20.7	8.6	10.3	8.3	10.2	7.7
Not reported ⁶	8.1	5.8	4.9	4.1	2.5	2.5	3.2	3.5	4.1	2.1	3.4	2.2
U.S. citizens.....	82.1	81.3	81.0	79.8	78.3	77.9	41.8	74.0	59.7	91.4	73.6	85.8
Foreign citizens.....	15.9	15.7	15.9	16.6	17.4	18.5	53.5	23.1	35.9	4.3	21.8	11.7
Citizenship unknown.....	2.0	3.0	3.1	3.6	4.3	3.6	4.7	2.9	4.4	4.3	4.5	2.5
Median age at award ⁷ (yr.).....	31.5	31.9	32.2	32.4	32.5	32.8	30.8	29.3	29.9	32.0	32.9	29.9
Median total time, ⁷ baccalaureate to doctorate (yr.).....	8.6	9.0	9.3	9.4	9.5	9.8	8.0	6.9	7.7	8.9	9.7	7.4
Registered time (yr.).....	5.9	6.2	6.3	6.4	6.5	6.6	5.7	5.9	6.2	6.6	7.2	6.1
Master's conferred (1,000).....	294	302	299	297	297	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Bachelor's conferred ⁸ (1,000).....	988	1,001	1,011	1,019	1,037	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Includes other fields, not shown separately. ² Astronomy, physics, chemistry, and earth sciences. ³ Data not strictly comparable to those shown in table 1009; see source for details. ⁴ Anthropology, sociology, economics, political science, public administration, and international relations. ⁵ Biochemistry, botany, microbiology, physiology, zoology, and related fields. ⁶ 1979-1983 data on race limited to U.S. citizens and non-U.S. citizens with permanent visas. ⁷ For definition of median, see Guide to Tabular Presentation. ⁸ Includes first professional degrees.

Source: U.S. National Science Foundation. Data from National Research Council, *Summary Report, 1983: Doctorate Recipients from United States Universities*.

No. 1009. SCIENCE AND ENGINEERING DOCTORATES CONFERRED: 1970 TO 1983

[For year ending June 30. See also *Historical Statistics, Colonial Times to 1970*, series H 767-771, 774, and 776-780]

FIELD OF SCIENCE	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Science doctorates conferred	17,731	18,352	17,872	17,373	17,034	17,230	17,195	17,623	17,614	17,924
Life sciences.....	4,163	4,402	4,350	4,286	4,361	4,495	4,710	4,783	4,840	4,747
Biological sciences.....	3,360	3,498	3,562	3,484	3,508	3,640	3,798	3,801	3,889	3,732
Agricultural sciences ¹	803	904	788	782	853	855	912	982	951	1,015
Physical sciences.....	4,400	3,749	3,572	3,410	3,234	3,321	3,151	3,208	3,348	3,438
Chemistry.....	2,234	1,762	1,623	1,570	1,545	1,567	1,538	1,611	1,678	1,759
Physics and astronomy.....	1,655	1,293	1,235	1,149	1,066	1,108	985	1,015	1,013	1,042
Earth, environmental, and marine sciences.....	511	694	714	681	623	646	628	582	657	637
Psychology.....	1,888	2,749	2,878	2,960	3,049	3,081	3,098	3,357	3,154	3,307
Social sciences.....	2,625	3,344	3,278	3,137	3,008	2,862	2,794	2,787	2,668	2,666
Engineering.....	3,432	2,959	2,791	2,641	2,423	2,494	2,479	2,526	2,644	2,780
Mathematics and computer sciences.....	1,222	1,149	1,003	959	959	977	963	960	940	986

¹ Excludes agricultural economics, included in social sciences.

Source: U.S. National Science Foundation. Data from National Research Council, *Doctorate Record File*.

NO. 1010. DOCTORAL SCIENTISTS AND ENGINEERS—SELECTED CHARACTERISTICS: 1975 TO 1983

(In thousands)

CHARACTERISTIC	1975	1979	1981	1983		CHARACTERISTIC	1975	1979	1981	1983	
				Number	Employed					Number	Employed
Total	270.5	332.3	363.9	395.0	369.3	Race:					
Field:						White.....	242.4	293.5	322.9	352.3	328.5
Physical scientists.....	58.4	64.3	67.7	69.6	64.0	Black.....	2.6	3.7	4.6	5.3	4.9
Mathematical scientists.....	14.2	16.1	16.5	17.4	16.4	Asian.....	13.1	21.7	27.9	30.9	29.7
Computer specialists.....	3.5	6.8	9.1	12.3	12.2	Other and not reported.....	12.4	13.4	8.5	6.6	6.2
Environmental scientists.....	12.5	15.1	16.6	17.1	16.5	Employment status:					
Engineers.....	43.4	51.5	58.3	63.8	61.5	Full-time employed.....	240.6	292.9	322.3	341.9	341.9
Life scientists.....	70.3	86.3	93.8	101.4	92.8	Part-time employed.....	7.3	10.7	10.7	16.5	16.5
Psychologists.....	31.4	40.3	45.4	49.7	46.6	Postdoctorates.....	8.2	10.2	10.5	10.9	10.9
Social scientists.....	36.8	52.0	56.5	63.7	59.3	Unemployed/seeking.....	2.5	2.9	2.6	3.7	(x)
Sex:						Not employed/not seeking.....	2.4	3.6	3.4	3.7	(x)
Men.....	244.9	294.4	318.1	340.5	320.5	Retired/not employed.....	8.7	10.3	12.5	13.8	(x)
Women.....	25.6	37.9	45.7	54.6	48.8	Other.....	.4	.8	.4	.8	(x)
						Not reported.....	.5	.9	1.4	3.7	(x)

X Not applicable.

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States: 1983*.

NO. 1011. DOCTORAL SCIENTISTS AND ENGINEERS, BY SELECTED STATES: 1983

(In thousands. Selected States represent those with more than 4,000 scientists and engineers)

STATE	Total	Natural scientists	Social scientists	Engineers	STATE	Total	Natural scientists	Social scientists	Engineers
Total	395.0	217.7	113.5	63.8	Missouri.....	6.7	3.9	1.8	1.0
Arizona.....	4.2	2.1	1.3	.8	New Jersey.....	17.0	9.4	3.2	4.4
California.....	48.7	25.0	13.4	10.3	New Mexico.....	4.8	2.9	.6	1.3
Colorado.....	8.0	4.7	1.8	1.5	New York.....	37.7	19.5	13.3	4.9
Connecticut.....	7.2	4.3	2.1	.8	North Carolina.....	8.8	5.6	2.2	1.0
District of Columbia.....	11.6	5.0	5.3	1.3	Ohio.....	15.7	8.5	4.3	2.9
Florida.....	9.3	4.5	3.4	1.4	Oklahoma.....	4.2	2.0	1.3	.9
Georgia.....	5.8	3.6	1.5	.7	Oregon.....	4.3	2.4	1.4	.5
Illinois.....	17.6	9.5	5.5	2.6	Pennsylvania.....	19.1	10.3	5.5	3.3
Indiana.....	7.3	4.4	2.0	.9	Tennessee.....	6.6	3.8	1.8	1.0
Louisiana.....	4.9	2.9	1.2	.8	Texas.....	20.4	11.8	4.6	4.0
Maryland.....	14.6	9.4	3.5	1.7	Virginia.....	12.0	6.0	3.6	2.4
Massachusetts.....	17.0	9.2	5.3	2.5	Washington.....	7.6	4.0	2.2	1.4
Michigan.....	12.1	6.9	3.4	1.8	Wisconsin.....	6.5	3.7	2.1	.7
Minnesota.....	7.0	4.2	2.1	.7	Others.....	49.3	28.2	13.8	6.3

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States: 1983*.

NO. 1012. FEDERAL SPACE PROGRAM—BUDGET AUTHORITY, BY AGENCY: 1960 TO 1984

(In millions of dollars, except percent. 1984 estimated. Through 1976, for years ending June 30; thereafter, years ending Sept. 30. NASA = National Aeronautics and Space Administration)

YEAR	Total ¹	NASA ²		Dept. of Defense	Dept. of Commerce	Dept. of Energy ³	YEAR	Total ¹	NASA ²		Dept. of Defense	Dept. of Commerce	Dept. of Energy ³
		Total	Percent of total						Total	Percent of total			
1960.....	1,066	462	49.2	561	(x)	43	1975.....	4,914	2,915	65.7	1,892	64	30
1965.....	6,956	5,138	75.5	1,574	12	229	1976.....	5,320	3,225	66.7	1,983	72	23
1966.....	6,970	5,065	74.2	1,689	27	187	1977.....	5,983	3,440	63.8	2,412	81	22
1967.....	6,710	4,830	74.0	1,664	29	184	1978.....	6,509	3,623	62.4	2,729	103	34
1968.....	6,529	4,430	70.3	1,922	28	145	1979.....	7,419	4,030	61.9	3,211	98	59
1969.....	5,976	3,822	66.8	2,013	20	118	1980.....	8,689	4,680	60.3	3,848	93	40
1970.....	5,341	3,547	70.1	1,678	8	103	1981.....	9,978	4,992	55.3	4,828	87	41
1971.....	4,741	3,101	69.8	1,512	27	95	1982.....	12,091	5,494	45.4	6,362	144	61
1972.....	4,576	3,071	72.3	1,407	31	55	1983.....	15,564	6,328	40.7	9,019	178	39
1973.....	4,825	3,093	70.6	1,623	40	54	1984.....	17,449	6,590	37.8	10,590	235	34
1974.....	4,640	2,759	65.5	1,766	60	42							

X Not applicable. ¹ Includes agencies not shown separately. ² Includes budget authority for the space transportation system of \$3.1 billion in 1982; \$4.1 billion in 1983 and \$4.0 billion in 1984. ³ See footnote 1, table 993.Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

NO. 1013. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—OUTLAYS FOR RESEARCH AND DEVELOPMENT: 1965 TO 1984

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Performance includes research and development, and research and program management. Space science includes technology. Minus sign (—) indicates decrease]

YEAR	Total outlays	Percent change	PERFORMANCE				FACILITIES			
			Total	Space flight	Space science, applications	Air transport and other	Total	Space flight	Space science, applications	Air transport and other
1965.....	5,093	122.1	4,562	3,138	1,128	298	531	401	78	52
1966.....	5,933	16.5	5,361	3,819	1,120	422	572	391	63	118
1967.....	5,426	-8.5	5,137	3,477	1,160	500	289	172	47	70
1968.....	4,726	-12.9	4,599	3,028	1,061	510	127	69	29	29
1969.....	4,252	-10.0	4,187	2,754	893	540	65	27	21	17
1970.....	3,753	-11.7	3,699	2,195	963	541	54	17	21	19
1971.....	3,382	-9.9	3,338	1,877	926	535	44	8	6	30
1972.....	3,423	1.2	3,373	1,727	1,111	535	50	13	7	30
1973.....	3,316	-3.1	3,271	1,532	1,220	519	45	5	11	29
1974.....	3,256	-1.8	3,181	1,448	1,156	577	75	25	12	38
1975.....	3,266	.3	3,181	1,500	1,076	606	85	35	9	42
1976.....	3,670	12.4	3,549	1,934	969	646	121	66	11	43
1977.....	3,945	7.5	3,840	2,195	1,002	643	105	56	4	45
1978.....	3,984	1.0	3,860	2,204	964	692	124	56	8	60
1979.....	4,187	5.0	4,054	2,175	1,144	735	133	41	9	83
1980.....	4,850	15.8	4,710	2,556	1,341	813	140	38	5	97
1981.....	5,421	11.8	5,274	3,026	1,380	868	147	26	4	117
1982.....	6,035	11.3	5,926	3,526	1,454	946	109	17	3	89
1983.....	6,664	10.4	6,556	4,027	1,486	1,043	108	26	—	82
1984, est.....	7,068	6.1	6,930	4,053	1,587	1,290	139	38	3	98

- Represents zero. ¹ Change from 1964.

Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual.

NO. 1014. SPACE VEHICLE SYSTEMS—SALES AND BACKLOG ORDERS: 1965 TO 1983

[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units]

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965.....	2,449	602	1,847	2,203	503	1,700	1976.....	2,002	904	1,098	1,234	902	332
1970.....	1,956	1,025	931	1,194	786	398	1977.....	1,870	814	1,056	1,568	1,263	326
1971.....	1,725	860	865	916	603	313	1978.....	2,324	1,006	1,319	2,168	1,683	465
1972.....	1,656	905	751	959	646	313	1979.....	2,539	1,105	1,434	1,446	906	539
1973.....	1,562	902	660	1,177	923	254	1980.....	3,483	1,461	2,022	1,814	951	863
1974.....	1,751	944	807	1,492	1,131	361	1981.....	3,856	1,736	2,120	3,174	2,164	1,010
1975.....	2,119	1,096	1,023	1,304	1,019	285	1982.....	4,749	2,606	2,143	4,337	2,403	1,934
							1983, prel.....	5,221	2,575	2,646	5,487	3,502	1,985

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MQ-37D, *Aerospace Industry (Sales and Orders)*.

NO. 1015. WORLD-WIDE SUCCESSFUL SPACE LAUNCHES: 1957 TO 1983

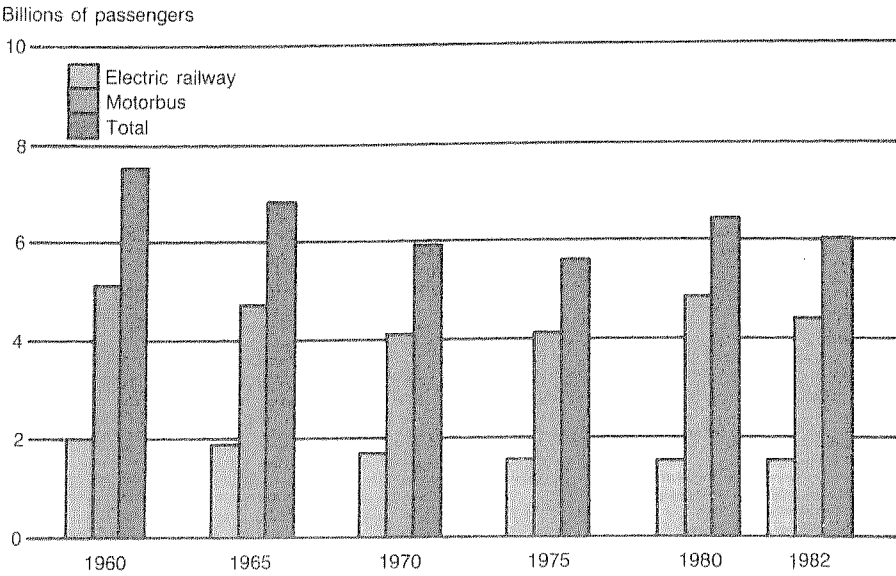
[Criterion of success is attainment of Earth orbit or Earth escape]

YEAR	Total	Soviet Union	United States	Japan	European Space Agency	India	Mainland China	YEAR	Total ¹	Soviet Union	United States	Japan	European Space Agency	India	Mainland China
Total.....	2,513	1,636	822	24	5	3	11	1969.....	110	70	40	—	—	—	—
1957.....	2	2	—	—	—	—	—	1970.....	114	81	29	1	—	—	1
1958.....	6	1	5	—	—	—	—	1971.....	120	83	32	2	—	—	1
1959.....	13	3	10	—	—	—	—	1972.....	108	74	31	1	—	—	—
1960.....	19	3	16	—	—	—	—	1973.....	109	86	23	—	—	—	—
1961.....	35	6	29	—	—	—	—	1974.....	106	81	24	1	—	—	—
1962.....	72	20	52	—	—	—	—	1975.....	125	89	28	2	—	—	9
1963.....	55	17	38	—	—	—	—	1976.....	128	99	26	1	—	—	2
1964.....	87	30	57	—	—	—	—	1977.....	124	98	24	2	—	—	—
1965.....	112	48	63	—	—	—	—	1978.....	124	88	32	3	—	—	1
1966.....	118	44	73	—	—	—	—	1979.....	106	87	16	2	1	—	—
1967.....	127	66	58	—	—	—	—	1980.....	105	89	13	2	—	1	—
1968.....	119	74	45	—	—	—	—	1981.....	123	98	18	3	2	1	1
								1982.....	121	101	18	1	—	—	1
								1983.....	127	98	22	3	2	1	1

- Represents zero. ¹ Includes launches in other countries not shown separately.

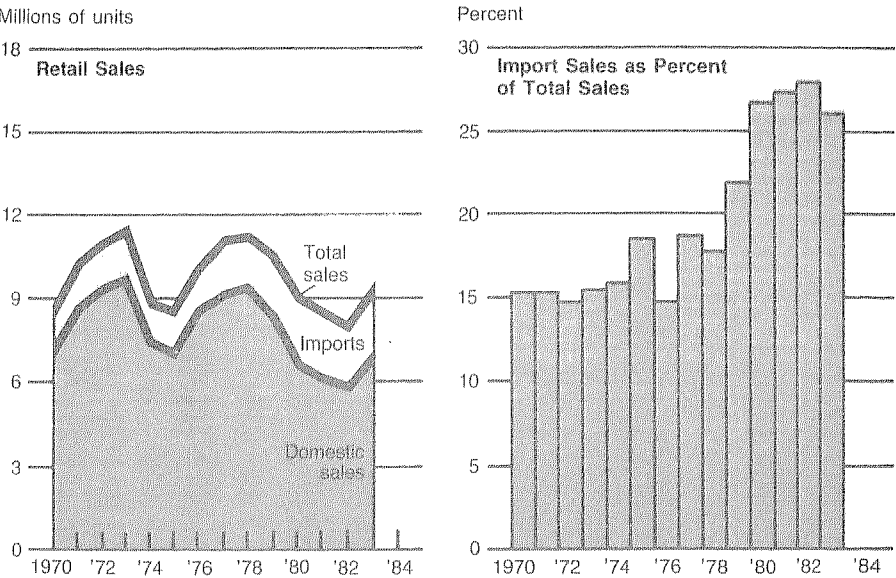
Source: Library of Congress, Congressional Research Service, Science Policy Research Division, *Space Activities of the United States, Soviet Union, and Other Launching Countries/Organizations*, January 1984.

Figure 22.1
Revenue Passengers Carried by Local Public Transportation: 1960 to 1982



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1056.

Figure 22.2
Passenger Car Retail Sales: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1036.

Transportation— Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage and finances; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit, railroads, and pipelines.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics*. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in *Commodity Transportation Survey*, *National Travel Survey*, and *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are provided for selected metropolitan areas and cities in tables 1054 and 1055.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Bus Facts*, issued annually by the American Bus Association, Washington, DC; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the Transportation Policy Associates, Washington, DC.

Urban and rural highway mileage.—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

Federal-aid highway systems.—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

Regulatory bodies.—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

Motor carriers.—For 1960–1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; since 1974, the class I minimum has been \$3 million. Effective January 1, 1980 class I revenue are those with \$5 million or more. For 1960–1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969–1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more.

Railroads.—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as “circular” because they reported on brief circulars); and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last 3 groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950–1955; \$3 million or more for 1956–1964; \$5 million or more for 1965–1975; and \$10 million or more for 1976–1977. Since 1978 the classification has been: Class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and Class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

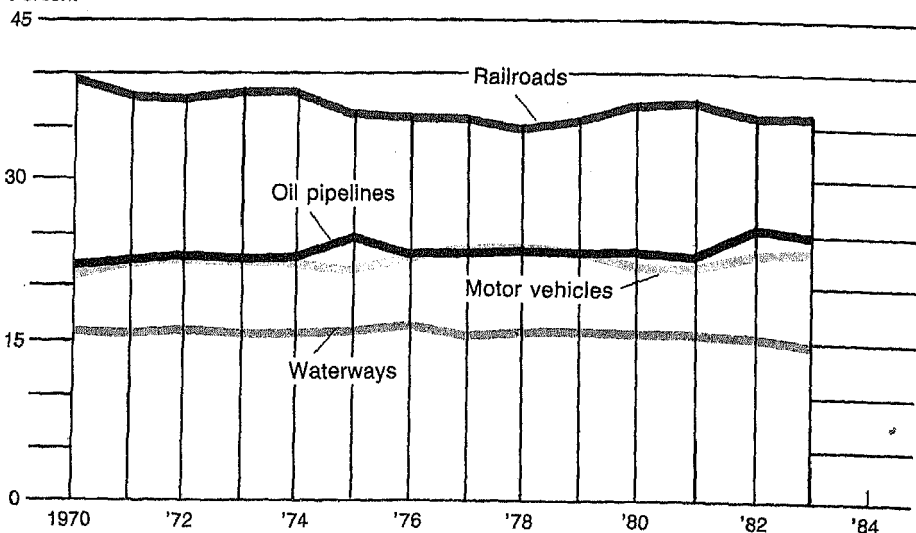
Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 22.3

Ton-Miles of Domestic Intercity Freight Traffic—Percent Distribution by Type of Transportation: 1970 to 1983

Percent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1022.

NO. 1016. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT:
1960 TO 1983

[In billions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, est.
Total outlays¹	105.6	141.0	195.6	281.6	297.8	348.9	392.2	446.1	492.4	540.1	599.6	605.8	651.4
Passenger, total	60.5	82.2	114.9	170.6	187.4	221.8	248.3	279.3	307.6	336.9	373.5	380.3	411.2
Private transportation	53.3	73.0	99.6	147.7	161.3	191.8	215.0	241.9	263.9	284.8	317.4	323.1	350.7
Automobiles ²	52.4	71.6	97.0	143.3	156.6	186.6	210.0	235.9	256.8	276.7	308.0	314.9	343.4
New and used cars	20.4	30.4	32.1	42.6	46.0	59.7	70.4	80.4	77.1	73.3	82.6	86.2	105.0
Tires, tubes, accessories	2.9	4.1	7.1	11.3	12.4	13.8	15.8	17.2	19.8	22.2	24.6	25.5	26.4
Gasoline and oil	16.0	19.6	29.9	48.8	53.9	58.6	60.3	78.3	99.7	111.3	107.6	106.8	
Insurance less claims	2.4	2.8	4.4	5.9	4.5	6.4	9.5	10.2	10.3	11.5	10.8	11.1	11.6
Interest on debt	2.8	3.5	4.7	6.7	7.3	8.6	10.4	12.8	15.4	17.5	21.0	21.0	22.0
Registration and operator's permit fees	1.0	1.3	1.9	2.3	2.3	2.7	2.8	3.0	3.1	3.3	3.5	3.8	4.0
Repair, greasing, washing, parking, tolls ³	6.0	8.2	13.2	18.7	22.1	25.0	29.5	33.0	36.7	38.0	41.5	44.2	46.8
Air	9	1.4	2.6	4.4	4.7	5.2	5.6	5.9	7.1	8.1	9.4	8.2	7.3
Aircraft	.2	.3	.4	.8	1.0	1.2	1.5	1.7	2.1	2.9	3.8	2.8	1.9
Operating costs	7	1.0	2.3	3.6	3.8	4.0	4.1	4.2	5.0	5.2	5.6	5.4	5.4
For-hire transportation	7.2	9.2	15.3	22.9	26.2	30.0	33.3	37.3	43.3	52.2	56.1	57.2	60.5
Local ⁴	3.1	3.4	5.4	7.9	10.5	12.1	12.7	13.9	15.4	18.5	20.4	20.9	21.9
Bus and transit ⁵	1.3	1.5	1.8	2.9	4.7	5.8	5.9	6.7	7.5	8.2	10.1	10.3	11.0
School bus	.5	.7	1.2	1.9	2.2	2.4	2.5	2.7	3.2	3.8	4.7	5.0	5.2
Taxi	1.1	1.1	2.1	3.0	3.4	3.8	4.1	4.3	4.5	5.2	5.2	5.3	5.3
Intercity	3.3	4.4	7.7	12.3	12.9	14.9	17.2	19.6	23.3	28.4	30.6	31.0	32.6
Air	2.1	3.3	6.6	10.8	11.2	13.0	14.9	17.1	20.4	25.1	26.8	27.0	28.6
Rail ⁶	.6	.5	.3	.5	.6	.9	1.2	1.3	1.4	1.6	1.9	2.2	2.2
Bus	.6	.6	.8	1.0	1.0	1.1	1.1	1.2	1.4	1.7	1.8	1.8	1.8
International	.9	1.3	2.2	2.6	2.7	2.9	3.4	3.8	4.6	5.3	5.3	5.3	6.0
Freight, total ⁴	46.8	61.1	83.8	115.7	115.5	139.2	150.4	174.0	192.9	212.1	236.0	235.5	251.1
Highway	31.5	43.8	62.5	84.8	84.8	98.0	111.4	128.8	142.7	155.4	174.7	178.0	191.8
Truck, intercity	18.0	23.6	33.6	48.8	47.4	56.2	67.4	79.6	90.2	94.6	101.7	102.7	110.6
ICC regulated	7.2	10.1	14.6	22.7	22.0	26.0	31.0	36.5	41.2	43.0	47.9	44.1	46.5
Non-ICC regulated	10.7	13.6	19.0	26.1	25.4	30.2	36.4	43.1	49.0	51.6	53.8	58.6	64.1
Truck, local	13.5	20.1	28.8	35.9	37.3	41.6	43.9	49.1	52.3	60.5	72.8	75.0	80.9
Rail	9.0	9.9	11.9	17.0	16.5	19.2	20.5	21.9	24.8	27.7	30.5	27.1	27.3
Water	3.3	3.8	5.1	8.0	7.9	8.9	10.3	12.4	13.4	14.8	15.7	15.0	16.0
Oil pipeline	.9	1.1	1.4	1.9	2.2	2.5	3.2	5.5	6.2	7.1	7.4	7.9	8.2

¹ Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. ² Includes business-owned vehicles. ³ Includes storage and rental. ⁴ Includes items not shown separately. ⁵ Includes Federal, State and local government operating subsidies and capital grants. ⁶ Includes Federal operating subsidies and capital grants for Amtrak.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, July 1984, with periodic supplements. (Copyright.)

NO. 1017. PERSONAL CONSUMPTION EXPENDITURES FOR TRANSPORTATION: 1960 TO 1983

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total transportation expenditures	42.4	58.4	80.6	129.4	155.2	179.3	198.1	219.4	236.6	261.5	267.3	291.9
Percent of total personal consumption ¹	13.1	13.6	13.0	13.3	14.3	14.9	14.7	14.6	14.2	14.1	13.5	13.5
User-operated transportation	39.1	54.5	74.3	119.7	144.1	167.0	184.6	204.0	218.5	241.7	246.7	269.9
New autos	14.0	21.4	21.9	29.3	38.1	44.3	48.2	49.1	46.3	50.8	52.8	65.2
Net purchases of used autos	2.6	3.9	5.3	8.9	11.9	13.2	14.9	15.7	15.5	18.8	20.8	23.0
Other motor vehicles	.6	1.3	2.9	7.1	10.9	13.9	17.9	14.9	10.1	11.4	14.0	18.2
Tires, tubes, accessories, other parts	2.5	3.4	6.1	10.5	11.7	13.5	14.7	16.9	18.9	20.9	21.2	28.2
Repair, greasing, washing, parking ²	5.1	6.9	11.2	18.8	21.3	25.1	28.1	31.2	32.3	34.9	37.0	38.8
Gasoline and oil	12.0	14.7	22.4	40.4	44.0	48.1	51.2	66.6	84.8	94.6	90.4	90.0
Bridge, tunnel, ferry, road tolls	.3	.5	.7	.8	.9	.9	.9	.9	1.0	1.0	1.1	1.1
Insurance premiums less claims paid	2.0	2.4	3.8	3.9	5.4	8.1	8.7	8.8	9.7	9.2	9.5	10.6
Purchased local transportation ³	2.0	2.1	3.0	4.0	4.4	4.7	5.0	5.4	5.8	6.2	6.8	6.8
Transit systems	1.3	1.3	1.6	1.9	2.1	2.2	2.3	2.5	2.6	2.9	3.3	3.5
Taxicab	.6	.6	1.2	1.9	2.1	2.2	2.4	2.7	2.9	2.9	3.1	2.9
Purchased intercity transportation	1.3	1.9	3.4	5.7	6.7	7.7	8.5	10.0	12.3	13.7	13.8	15.1
Airline	.7	1.2	2.5	4.4	5.3	6.1	6.9	8.1	10.0	11.1	11.1	12.3
Bus	.3	.4	.5	.7	.7	.7	.7	.9	1.0	1.1	1.1	1.1
Railway and other ⁴	.3	.3	.4	.7	.8	.8	.9	1.1	1.3	1.5	1.6	1.8

¹ See table 724. ² Includes rental and storage. ³ Includes railway commutation, not shown separately. ⁴ Railway excludes commutation; "other" consists of baggage charges, coastal and inland waterway fares, and travel agents' fees.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues.

NO. 1018. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1980 TO 1984

[In millions of dollars. For years ending Sept. 30, 1984 estimated]

FUNCTION	1980	1982	1983	1984	FUNCTION	1980	1982	1983	1984
Total outlays ¹	21,120	20,560	21,385	26,123	Air transportation—Con.				
Ground transportation.....	15,079	14,326	14,316	18,116	Aeron. research and technology.....	509	563	563	641
Highway const. ²	8,397	7,834	8,905	11,305	Air carrier subsidies.....	28	26	24	22
Highway safety.....	1,126	289	227	255	Regulation.....	2,235	2,696	2,969	3,092
Mass transit.....	3,307	3,930	3,759	3,936	Water transportation.....	1,613	2,070	2,402	2,576
Railroads.....	2,170	2,126	1,364	2,558	Marine safety, trans.....	611	614	555	506
Regulation.....	79	68	63	61	Ocean shipping.....	11	11	12	11
Air transportation.....	3,762	3,564	4,000	4,788	Regulation.....	104	90	99	147
Airways and airports.....	3,136	2,891	3,360	4,048	Other.....				

¹ Total reflects deductions for offsetting receipts. ² Includes improvement.Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual, and unpublished document, "Federal Government Finances," February 1984 edition.

NO. 1019. OPERATING, PASSENGER, AND FREIGHT REVENUES, BY TRANSPORT TYPE: 1970 TO 1982

TYPE OF TRANSPORT	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
OPERATING REVENUES (mil. dol.)										
Air carrier, certificated ¹	9,290	14,703	15,356	17,503	19,926	22,892	27,170	32,947	36,216	28,728
Air carrier, supplemental ¹	337	429	433	418	515	562	562	792	(NA)	(NA)
Bus, class I, intercity.....	722	933	955	993	1,037	1,205	1,311	1,465	1,459	1,439
Local transit.....	(NA)	(NA)	(NA)	(NA)	(NA)	4,862	5,771	6,636	7,552	(NA)
Oil pipeline.....	1,168	1,567	1,874	2,137	2,792	4,907	5,585	6,141	6,678	7,140
Gas pipeline (transmission companies).....	5,928	9,085	11,898	15,416	19,836	22,989	29,919	41,574	50,188	55,847
Motor carriers of property, class I, intercity.....	11,137	16,704	16,164	18,360	22,520	26,855	29,858	30,338	32,531	32,246
Railroad, class I.....	11,992	16,923	16,402	18,537	20,091	21,721	25,219	28,103	30,899	27,504
Amtrak.....	(2)	257	253	287	310	321	398	454	512	514
Water transport, classes A and B ³	372	632	730	777	694	777	4,772	(NA)	(NA)	(NA)
Water transport, maritime.....	833	1,478	1,342	1,583	1,643	1,889	2,235	(NA)	(NA)	(NA)
Freight forwarders, class A.....	211	362	359	431	615	603	701	721	849	541
AVERAGE PASSENGER REVENUE PER PASSENGER-MILE (cents)										
Air carrier, certificated: ⁵ Total.....	6.00	7.52	7.69	8.16	8.61	8.49	8.96	11.53	12.74	12.02
First class.....	8.30	9.89	10.58	11.50	12.21	11.97	11.43	14.35	14.14	13.82
Coach plus economy.....	5.45	6.94	7.05	7.49	7.92	7.81	8.34	10.87	12.37	11.53
Railroad, class I: ⁶ Total.....	3.91	4.98	4.99	5.65	5.74	5.85	6.02	6.15	8.06	8.47
Commutation.....	3.75	4.44	4.57	5.04	5.07	5.20	5.37	5.92	6.76	7.06
Other than commutation.....	4.02	6.75	6.25	7.60	7.85	7.84	7.93	9.39	10.49	11.42
Amtrak: Total.....	(2)	5.23	5.66	5.56	5.83	6.08	6.59	8.18	8.66	9.75
Commutation.....	(2)	3.52	4.40	3.59	3.01	3.07	3.56	3.62	(NA)	(NA)
Other than commutation.....	(2)	5.29	5.71	5.62	5.92	6.16	6.67	8.32	8.66	9.75
Bus, class I, intercity.....	3.80	4.42	4.85	5.14	5.18	5.62	6.21	7.26	8.35	8.18
AVERAGE FREIGHT REVENUE PER TON-MILE (cents)										
Air carrier, certificated ⁵	21.91	25.92	28.22	31.81	34.20	37.10	41.02	46.29	46.69	46.78
Railroad, class I.....	1.43	1.85	2.04	2.20	2.28	2.36	2.60	2.85	3.18	3.21
Motor carriers of property, class I, intercity.....										
Common.....	7.46	9.00	9.20	9.97	10.85	11.20	11.97	12.91	13.98	14.09
Contract.....	6.86	7.00	7.80	8.20	9.05	12.97	13.50	11.78	11.55	12.03
Oil pipelines.....	.27	.32	.37	.41	.54	.86	.94	1.03	1.18	1.25
Water carriers, classes A and B.....	.43	.67	.77	.74	.81	.84	.90	(NA)	(NA)	(NA)

NA Not available. ¹ Domestic and international. ² Amtrak established May 1, 1971. ³ Inland and coastal.⁴ Preliminary. ⁵ Scheduled service (domestic). ⁶ Excludes Amtrak and Auto-Train service.Source: U.S. Dept. of Transportation, Transportation Systems Center, *National Transportation Statistics*, annual.

NO. 1020. EMPLOYMENT AND EARNINGS IN TRANSPORTATION, BY INDUSTRY: 1970 TO 1983

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 36-42]

SIC ¹ Code	INDUSTRY	NUMBER (1,000)						AVERAGE WEEKLY EARNINGS (dol.)					
		1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
(x)	Total	2,684	2,636	2,962	2,922	2,788	2,740	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
40	Railroads.....	634	548	532	495	429	377	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
4011	Class I railroads.....	566	498	482	457	398	348	172	262	427	456	484	542
41	Local and interurban passengers.....	269	270	265	265	263	254	(NA)	148	217	231	248	252
421, 3	Trucking, incl. terminals.....	999	1,024	1,189	1,168	1,125	1,130	164	247	366	395	401	408
422	Public warehousing.....	84	84	91	88	84	85	121	171	248	266	277	287
44	Water transportation.....	213	195	213	219	202	194	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
45	Air transportation.....	352	393	453	455	444	452	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
46	Pipelines, exc. natural gas.....	18	18	21	22	21	21	189	280	441	491	536	586
47	Transportation services.....	115	134	198	210	220	227	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Standard Industrial Classification, see text, p 388.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

**NO. 1021. 50 LARGEST TRANSPORTATION COMPANIES—REVENUES AND ASSETS, BY RANK OF
OPERATING REVENUES: 1981 TO 1983**

[In billions of dollars, except percent. Revenues include nontransportation activities; assets as of end of companies' fiscal years. Companies listed derive more than 50 percent of their operating revenues from the transport of passengers and/or freight (e.g., railroads, airlines, motor carriers, pipelines); excludes companies primarily engaged in freight forwarding, or vehicle rental]

OPERATING REVENUE GROUP	1981				1982				1983			
	As-sets	Operating revenues	Net income	Stock-holders' equity	As-sets	Operating revenues	Net income	Stock-holders' equity	As-sets	Operating revenues	Net income	Stock-holders' equity
50 largest, total	88.2	81.5	3.9	29.0	87.8	77.8	2.3	29.2	100.5	82.6	3.8	35.3
Top 10.....	39.5	44.1	1.3	13.9	43.4	43.4	.9	15.2	58.2	48.1	2.0	20.7
11-20.....	25.4	17.9	1.1	8.3	22.3	17.7	.6	7.5	20.1	16.2	.5	7.0
21-30.....	12.1	10.0	.7	3.4	11.7	8.8	.7	3.6	12.2	9.3	.8	3.8
31-40.....	5.8	5.7	.3	1.3	5.6	4.7	.4	1.7	6.3	5.4	.3	2.2
41-50.....	5.4	3.8	.4	2.0	4.7	3.4	-.2	1.3	3.7	3.7	.2	1.7
Percent total:												
Top 10.....	44.8	54.0	33.9	48.1	49.5	55.7	37.7	52.1	57.9	58.2	51.5	58.5
11-20.....	28.8	22.0	27.9	28.6	25.4	22.7	26.7	25.5	20.0	19.6	13.6	19.8
21-30.....	13.8	12.3	18.5	11.8	13.3	11.3	28.8	12.2	12.2	11.3	21.4	10.8
31-40.....	6.6	7.0	8.9	4.4	6.4	6.0	16.4	5.7	6.2	6.5	9.2	6.1
41-50.....	6.1	4.7	10.8	7.0	5.4	4.3	-9.6	4.5	3.7	4.5	4.3	4.8

Source: Time, Inc., New York, NY, adapted from *The Fortune Directory*, July issues. (Copyright.)

**NO. 1022. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF
TRANSPORT: 1960 TO 1983**

[A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970*, series Q1-22]

TYPE OF TRANSPORT	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
BILLIONS OF TON-MILES														
FREIGHT TRAFFIC														
Total.....	1,314	1,638	1,936	2,232	2,212	2,066	2,202	2,307	2,487	2,573	2,487	2,438	2,262	2,333
Railroads ¹	579	709	771	858	852	759	800	834	868	927	932	924	810	838
Motor vehicles.....	285	359	412	505	495	454	510	555	599	608	555	535	525	551
Inland waterways ²	220	262	319	358	355	342	373	368	409	425	407	410	351	356
Oil pipelines.....	229	306	431	507	506	507	515	546	586	608	588	564	571	582
Domestic airways ^{3,4}.....	.9	1.9	3.3	4.0	3.9	3.7	3.9	4.2	4.8	4.6	4.8	5.0	4.9	5.5
PERCENT DISTRIBUTION														
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Railroads ¹	44.06	43.28	39.82	38.44	38.52	36.74	36.33	36.15	35.18	36.03	37.47	37.90	35.81	35.93
Motor vehicles.....	21.69	21.92	21.28	22.63	22.36	21.97	23.16	24.06	24.28	23.64	22.32	21.94	23.21	23.62
Inland waterways ²	16.74	16.00	16.48	16.04	16.05	16.55	16.94	15.95	16.58	16.52	16.37	16.82	15.52	15.26
Oil pipelines.....	17.43	18.65	22.26	22.72	22.88	24.54	23.39	23.67	23.75	23.64	23.64	23.13	25.24	24.85
Domestic airways ^{3,4}.....	.07	.12	.17	.18	.18	.19	.18	.18	.19	.18	.19	.21	.22	.24
BILLIONS OF PASSENGER-MILES														
PASSENGER TRAFFIC														
Total.....	781	918	1,181	1,341	1,308	1,354	1,460	1,529	1,602	1,590	1,558	1,574	1,609	1,682
Private automobiles.....	706	819	1,026	1,183	1,122	1,171	1,280	1,316	1,362	1,322	1,300	1,319	1,344	1,400
Domestic airways ^{2,5}	34	58	119	143	147	148	164	177	203	226	219	216	227	245
Bus ⁶	19	24	25	26	28	25	25	26	26	28	27	27	27	26
Railroads ¹	22	18	11	9	11	10	11	10	11	12	11	12	11	11
PERCENT DISTRIBUTION														
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles.....	90.40	89.11	86.88	88.73	85.78	86.48	86.30	86.07	85.02	83.14	83.44	83.80	83.53	83.23
Domestic airways ^{2,5}	4.35	6.32	10.08	10.66	11.24	10.93	11.23	11.58	12.67	14.34	14.06	13.72	14.11	14.57
Bus ⁶	2.43	2.61	2.12	1.94	2.14	1.85	1.71	1.70	1.62	1.76	1.73	1.72	1.68	1.55
Railroads ¹	2.82	1.96	.93	.67	.84	.74	.75	.65	.69	.75	.71	.76	.68	.65

¹ Includes electric railways and rail commuter service. ² Includes Great Lakes. ³ Revenue service only for certificated route and charter carriers, with small Section 418 all-cargo carriers included from 1978. ⁴ Includes express, mail, and excess baggage. ⁵ Includes general aviation (mostly private business) flying. ⁶ Excludes school and urban transit buses.

Source: Transportation Policy Associates, Washington, DC, *Transportation in America*, March 1984, with periodic supplements. (Copyright.)

No. 1023. FUEL CONSUMPTION BY MODE OF TRANSPORTATION: 1970 TO 1982

ITEM	Unit	1970	1973	1975	1977	1978	1979	1980	1981	1982
Class I railroads:										
Locomotives	mil. gal.	3,800	4,141	3,732	3,982	3,966	4,069	3,942	3,774	3,178
Diesel oil	mil. kwh.	578	346	422	417	331	309	190	81	34
Electricity	mil. kwh.	1,238	1,202	1,160	1,569	1,275	1,421	908	(NA)	(NA)
Coal	Tons									
Motor cars:										
Diesel oil	mil. gal.	8	3	4	3	2	3	2	1	1
Electricity	mil. kwh.	763	901	857	986	991	1,062	968	380	905
Certified air carriers:										
Jet fuel ¹	mil. gal.	10,085	10,671	9,507	10,268	10,639	11,369	11,131	10,588	10,406
General aviation:										
Aviation gasoline	mil. gal.	551	411	412	456	518	570	520	489	446
Jet fuel	mil. gal.	208	304	453	536	783	736	766	759	867
Highway:										
Gasoline:										
Passenger cars and taxis	mil. gal.	65,649	77,619	76,010	80,225	83,312	79,793	73,375	71,918	69,430
Motorcycles	mil. gal.	135	392	447	451	463	440	380	300	300
Diesel and gasoline ²	mil. gal.	26,544	32,462	32,527	38,948	41,293	41,882	41,226	42,735	43,654
Water transport:										
Fuel oil ³	mil. gal.	4,593	5,006	5,158	6,825	8,194	9,634	10,135	9,645	7,832
Gasoline	mil. gal.	598	717	730	774	812	780	1,052	1,093	1,062
Transit:										
Electricity, total	mil. kwh.	(NA)	(NA)	(NA)	(NA)	2,017	2,643	2,793	2,818	(NA)
Motor fuel ⁴	mil. gal.	(NA)	(NA)	(NA)	(NA)	370	397	425	435	(NA)
Pipelines, natural gas	mil. cu. ft.	722,166	728,177	582,963	532,669	530,451	600,964	634,622	642,325	596,411
Non-highway use of gasoline, total	mil. gal.	4,003	3,896	3,642	3,725	3,577	3,645	3,655	3,515	3,260

NA Not available. ¹ Includes small amounts of aviation gasoline. ² Includes commercial and school buses and single-unit and combination trucks. ³ Includes residual and distillate fuel oil. ⁴ Includes gasoline, diesel oil, and propane.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *National Transportation Statistics*, annual.

No. 1024. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1983

[For motor vehicle data, see also tables 1041 and 1042; for railroad data, see also tables 1061 and 1067; for air carrier and general aviation data, see also tables 1071 and 1074]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT							Hazardous materials ⁹	
		Motor vehicle ¹ (1,000)	Rail- road ²	Air carrier ³	General aviation ⁴	Recre- ational boating ⁵	Gas pipe- lines ⁶	Liquid pipe- lines ⁷		Water- borne ⁸
Accidents:										
1970	16,013	18,000	8,095	(NA)	(NA)	3,803	1,019	351	(NA)	(NA)
1975	16,523	16,500	8,041	31	4,001	6,308	1,373	254	3,310	10,779
1979	18,126	18,100	9,740	24	3,824	5,368	1,920	248	4,932	17,524
1980	17,924	17,900	8,451	15	3,587	5,513	1,996	219	4,624	16,115
1981	18,020	18,000	5,781	25	3,502	5,208	1,695	239	3,503	9,165
1982	18,118	18,100	4,589	16	3,216	5,377	1,711	200	3,174	6,487
1983	(NA)	(NA)	3,906	20	3,091	5,569	1,580	161	1,853	5,761
Deaths:										
1970	54.8	52.6	785	(NA)	(NA)	1,418	22	4	(NA)	(NA)
1975	48.2	44.5	575	122	1,258	1,466	14	7	243	27
1979	54.9	51.1	546	351	1,237	1,400	45	4	174	18
1980	54.5	51.1	584	-	1,252	1,360	11	3	208	19
1981	52.5	49.3	556	4	1,282	1,206	17	5	154	10
1982	47.2	43.9	512	235	1,161	1,178	31	-	223	12
1983	45.4	42.4	495	15	1,049	1,241	12	(NA)	164	8
Injuries:										
1970	2,024	2,000	21,327	(NA)	(NA)	780	347	21	(NA)	(NA)
1975	1,859	1,800	54,308	71	780	2,136	819	17	97	855
1979	2,077	2,000	74,126	48	636	2,463	57	8	115	941
1980	2,066	2,000	62,246	17	675	2,650	310	15	176	819
1981	1,956	1,900	53,003	21	597	2,474	(NA)	(NA)	141	692
1982	1,741	1,700	37,638	25	623	2,682	(NA)	(NA)	271	125
1983	1,636	1,600	32,160	7	604	2,913	(NA)	(NA)	205	191

- Represents zero. NA Not available. ¹ Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1041. Other data are from National Safety Council. ² Train accidents cover only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975; to \$2,900 in 1979; to \$3,700 in 1981; and to \$4,500 in 1983. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. ³ Includes only scheduled air carriers operating under 14 CFR 121 (airlines). Injuries include only serious injuries. 1981-1983 injuries include commuter carrier and air taxis. ⁴ 1975-1983 data excludes commuter and on-demand air taxis operating under 14 CFR 135. ⁵ Accidents are required to be reported to the U.S. Coast Guard whenever they result in a death; a person being injured or receiving medical treatment beyond first aid; damages exceed \$200; or a person's disappearance. ⁶ Pipeline accidents/incidents are credited to the year in which they occurred beginning with 1983 data; prior data are credited to the year the accident/incident reports were filed. Fatalities and injuries as reported in annual report. ⁷ Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. ⁸ Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. ⁹ Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *Transportation Safety Information Report*, annual.

**No. 1025. HIGHWAY MILEAGE—URBAN AND RURAL, BY TYPE OF CONTROL, AND FEDERAL-AID
HIGHWAY SYSTEM: 1950 TO 1982**

[In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, p. 585. See also *Historical Statistics, Colonial Times to 1970*, series C 50, 51, and 55]

TYPE AND CONTROL	1950	1955	1960	1965	1970	1975	1979	1980	1981	1982
Total mileage ¹	3,313	3,418	3,546	3,690	3,730	3,838	3,918	² 3,955	3,853	3,866
Urban mileage ²	323	373	430	506	561	639	694	624	632	641
Under State control	36	42	50	65	74	84	86	79	90	103
Under local control	287	331	379	442	487	555	607	543	540	536
Rural mileage	2,990	3,045	3,116	3,183	3,169	3,199	3,224	² 3,331	3,221	3,226
Percent surfaced ⁴	56.2	63.8	69.5	72.3	76.1	77.6	77.5	77.5	86.1	85.7
Under State control	580	620	659	687	707	711	697	702	726	⁵ 825
Under local control	2,396	2,333	2,345	2,346	2,275	2,261	2,281	2,270	2,236	⁵ 2,140
Under Federal control	73	93	112	150	188	227	244	262	256	261
Federal-aid highway system: ⁶										
Primary	234	235	265	269	272	266	303	300	298	298
Interstate	(x)	(x)	10	21	32	37	40	41	42	42
Urban	(x)	(x)	(x)	(x)	(x)	65	124	124	129	134
Secondary	410	514	601	640	647	643	397	398	401	402

X Not applicable. ¹ Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. ² Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. ³ Prior to 1980; represents municipal mileage; see text p. 585. ⁴ Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. ⁵ Incomplete reporting from Alaska, Missouri, and Pennsylvania for control accounts for changes between 1981 and 1982. ⁶ For definition, see text, p. 585. Beginning 1979, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1026. HIGHWAY MILEAGE—URBAN, RURAL, AND FEDERAL-AID HIGHWAY SYSTEM: 1982

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads; see text, p. 585]

STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM ¹				STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM ¹			
			Primary		Urban	Sec- ondary				Primary		Urban	Sec- ondary
			Total	Inter- state						Total	Inter- state		
U.S.	640.6	3,225.7	298,219	42,460	133,500	401,999	MO.....	13.9	104.7	8,056	1,119	3,677	18,090
AL.....	13.7	73.8	7,431	824	2,203	11,074	MT.....	2.3	69.1	6,624	1,128	330	4,717
AK.....	1.2	8.7	2,640	1,092	110	2,324	NE.....	4.3	87.6	7,742	481	959	11,411
AZ.....	8.9	67.4	4,625	1,143	1,691	3,136	NV.....	2.4	41.5	2,390	535	505	2,332
AR.....	7.4	69.3	5,892	540	980	7,071	NH.....	2.4	12.1	1,349	201	690	1,236
CA.....	62.5	111.4	13,463	2,263	15,696	11,103	NJ.....	22.2	11.5	1,778	338	5,359	1,731
CO.....	9.2	66.2	5,231	916	2,282	3,441	NM.....	4.4	49.3	4,566	999	611	3,945
CT.....	10.1	9.4	1,604	293	2,789	927	NY.....	38.4	73.4	9,790	1,428	7,941	6,381
DE.....	1.4	3.9	465	41	271	630	NC.....	17.1	75.8	5,099	775	2,209	10,497
DC.....	1.1	-	170	12	243	-	ND.....	1.6	84.6	6,161	571	394	10,455
FL.....	28.5	65.3	9,654	1,252	5,521	4,795	OH.....	29.2	81.9	7,089	1,537	7,283	11,826
GA.....	15.6	88.6	11,359	1,163	2,889	14,099	OK.....	11.4	98.5	6,230	925	2,131	9,007
HI.....	1.3	2.9	548	36	192	434	OR.....	8.4	125.3	5,665	707	1,864	7,709
ID.....	2.2	66.2	3,217	603	572	4,250	PA.....	27.9	88.1	11,427	1,497	6,701	8,222
IL.....	30.3	104.1	11,434	1,711	6,407	12,856	RI.....	3.6	2.6	445	72	845	166
IN.....	17.6	74.0	6,099	1,114	4,754	9,093	SC.....	7.1	56.0	6,242	756	805	8,863
IA.....	8.1	104.1	9,606	736	2,218	13,341	SD.....	1.6	71.7	6,507	656	341	10,867
KS.....	8.4	123.8	8,913	808	1,529	22,530	TN.....	11.9	71.8	6,914	1,029	2,268	9,820
KY.....	6.9	61.7	4,460	737	1,759	7,295	TX.....	59.3	212.6	19,712	3,077	6,925	32,705
LA.....	10.1	46.9	3,798	687	1,224	7,598	UT.....	5.0	39.1	3,363	787	778	2,556
ME.....	2.2	19.7	2,306	313	650	2,743	VT.....	7	13.2	1,407	309	214	1,987
MD.....	9.8	17.3	2,499	381	1,906	2,034	WA.....	12.4	52.5	6,414	1,018	2,675	10,360
MA.....	20.6	13.2	2,781	552	5,805	2,006	WV.....	2.9	31.6	2,862	429	784	6,327
MI.....	25.1	92.3	7,061	1,131	4,828	19,019	WI.....	13.8	94.3	9,522	577	2,763	11,737
MN.....	13.0	118.2	10,187	873	2,042	16,281	WY.....	1.5	35.5	3,878	898	427	2,281
MS.....	6.3	64.5	6,072	685	1,431	11,670							

- Represents zero.

¹ Highway mileage open to traffic.

² By authority of Section 10 of P.L. 97-134.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1027. HIGHWAY MILEAGE, VEHICLE MILES OF TRAVEL, ACCIDENTS, AND FATALITIES, BY TYPE OF HIGHWAY SYSTEM: 1982

TYPE	Highway mileage (1,000)	Vehicle miles (bil.)	Daily vehicle miles ¹	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES	
				Number	Rate	Number (1,000)	Rate	Number	Rate per mile
Total mileage	3,866	1,592	1,128	38,999	2.45	1,969	124	43,846	2.75
Urban.....	641	902	3,857	17,167	1.90	1,352	150	18,740	2.08
Rural.....	3,226	691	586	21,832	3.16	617	89	25,106	3.63
Interstate.....	42	318	20,496	3,565	1.12	117	37	4,053	1.28
Urban.....	10	175	50,173	1,704	.97	81	46	1,878	1.07
Rural.....	33	142	11,848	1,861	1.31	36	25	2,175	1.53
Noninterstate.....	3,824	1,275	913	35,434	2.78	1,851	145	39,793	3.12
Urban.....	631	726	3,153	15,463	2.13	1,270	175	16,862	2.32
Rural.....	3,193	548	470	19,971	3.64	581	106	22,931	4.18
Federal-aid highway system, total.....	834	1,275	4,189	29,079	2.28	1,298	102	33,050	2.59
Urban.....	173	721	11,438	13,020	1.81	925	128	14,348	1.99
Rural.....	661	554	2,294	16,059	2.90	373	67	18,702	3.38
Interstate.....	42	318	20,496	3,565	1.12	117	37	4,053	1.28
Other primary arterial.....	256	471	5,046	12,129	2.57	425	90	14,098	2.99
Urban.....	30	205	18,923	3,497	1.71	232	113	3,862	1.89
Rural.....	226	266	3,226	8,632	3.24	193	72	10,236	3.84
Urban (arterial and collector).....	134	341	6,995	7,819	2.29	612	179	8,608	2.53
Secondary (collector).....	402	145	989	5,566	3.83	144	99	6,291	4.33
NonFederal-aid highway system, total.....	3,033	318	287	9,920	3.12	670	211	10,796	3.40
Urban.....	468	181	1,058	4,147	2.30	426	236	4,392	2.43
Rural.....	2,565	137	146	5,773	4.21	244	178	6,404	4.67
Collector.....	355	70	540	2,476	3.54	98	140	2,767	3.96
Urban.....	18	20	3,039	401	2.00	19	93	443	2.20
Rural.....	337	50	405	2,075	4.16	79	159	2,324	4.66
Local.....	2,666	220	225	6,659	3.03	553	252	7,181	3.27
Urban.....	442	136	846	3,026	2.22	390	286	3,184	2.39
Rural.....	2,224	83	102	3,633	4.36	163	196	3,997	4.79

¹ Rate per 100 million vehicle miles.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, December 1983.

NO. 1028. HIGHWAY MILEAGE—PAVEMENT CONDITION FOR URBAN AND RURAL AREAS, BY TYPE OF ROAD SYSTEM: 1978 TO 1982

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system, which ranges from a high of 5.0 down to 0.1. The reported ranges are defined as: PSR 5.0-3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4-2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9-0.1, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD SYSTEMS				ARTERIAL ROAD SYSTEMS				COLLECTOR ROAD SYSTEMS			
	1978	1980	1981	1982	1978	1980	1981	1982	1978	1980	1981	1982
URBAN AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) ¹	8	6	6	9	5	7	7	7	7	9	9	8
PSR 2.0-3.4 (2.5-3.4) ¹	34	26	30	33	48	42	47	49	59	50	53	55
PSR 3.5-5.0.....	58	69	64	58	47	51	45	44	34	41	38	36
RURAL AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) ¹	9	5	6	8	6	6	7	9	9	16	13	12
PSR 2.0-3.4 (2.5-3.4) ¹	28	26	29	33	52	46	48	50	66	55	56	54
PSR 3.5-5.0.....	63	69	65	59	42	48	45	42	25	29	31	34

¹ PSR range shown in parentheses applies to Interstate roads only.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1029. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1984

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 487. State data include District of Columbia]

TYPE	1970	1975	1980	1981	1982	1983, prel.	1984, proj.		
							Total ¹	Federal	State
Total receipts	21,747	29,160	39,715	42,693	43,912	47,852	50,390	13,817	24,431
Current income	19,861	26,921	37,804	40,119	40,757	44,432	46,920	13,817	22,781
Imposts on highway users ²	15,311	19,578	22,559	23,847	24,515	28,139	30,395	10,487	19,081
Other taxes and fees	3,732	6,605	11,808	12,457	12,498	12,580	12,868	2,553	2,200
Investment income and other receipts	818	1,738	3,237	3,815	3,744	3,713	3,657	1,077	1,500
Bond issue proceeds ³	1,886	2,239	2,111	2,574	3,155	3,430	3,480	-	1,650
Intergovernmental payments ⁴	(x)	(x)	(x)	(x)	(x)	(x)	(x)	-14,219	7,621
Funds drawn from (+) or placed in (-) reserves	-912	-461	+2,080	+185	-797	-908	+1,495	+1,427	-
Total funds available	20,835	28,699	41,795	42,888	43,115	46,954	51,875	1,025	32,052
Total disbursements	20,835	28,699	41,795	42,888	43,115	46,954	51,875	1,025	32,052
Current disbursements	19,583	27,207	40,084	40,424	41,284	45,210	50,113	1,025	31,020
Capital outlay	11,575	14,398	20,337	19,734	19,475	22,416	26,357	607	19,710
Maintenance and traffic services	4,720	7,286	11,445	12,165	12,818	13,405	14,078	134	5,824
Administration and research	1,275	1,981	3,022	3,439	3,321	3,525	3,543	284	1,964
Law enforcement and safety	1,303	2,413	3,824	3,884	3,919	4,001	4,226	-	2,321
Interest on debt	710	1,129	1,456	1,202	1,753	1,863	1,909	-	1,201
Debt retirement ⁵	1,252	1,492	1,711	2,464	1,831	1,744	1,762	-	1,032

- Represents zero. X Not applicable. ¹ Includes other levels of government not shown separately.

² Excludes amounts later allocated for nonhighway purposes.

³ Par value. Excludes issue and redemption of short-term notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. ⁴ Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

No. 1030. DISBURSEMENTS OF STATE HIGHWAY FUNDS—TOTAL, 1980 TO 1982, AND BY PURPOSE, 1982, BY STATE

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1980, total	1981, total	1982 ¹				STATE	1980, total	1981, total	1982 ¹			
			Total ¹	State highways						Total ¹	State highways		
				Capit- al out- lays ²	Mainte- nance ³	Law en- force- ment and safety					Capit- al out- lays ²	Mainte- nance ³	Law en- force- ment and safety
U.S.	30,049	29,056	29,803	13,562	5,330	2,118	MO	555	500	507	211	136	43
AL	517	576	605	277	65	37	MT	224	218	174	101	32	11
AK	274	292	302	149	91	8	NE	274	293	271	126	39	16
AZ	365	386	347	173	37	23	NV	189	155	164	102	18	9
AR	425	326	351	163	64	18	NH	152	140	197	86	54	20
CA	1,930	2,119	2,013	639	319	342	NJ	682	737	782	345	164	45
CO	411	376	411	175	89	27	NM	197	273	301	164	47	15
CT	393	403	396	146	54	29	NY	1,650	1,596	1,653	786	290	107
DE	152	169	168	72	21	12	NC	807	730	693	251	236	78
DC	57	83	99	45	29	5	ND	143	156	136	64	25	7
FL	1,261	1,206	1,133	608	136	61	OH	1,032	1,070	1,189	444	179	84
GA	762	879	728	489	82	52	OK	461	519	539	228	70	42
HI	134	126	133	79	11	1	OR	482	407	417	227	49	31
ID	153	155	160	61	29	7	PA	1,557	1,679	1,817	682	517	122
IL	1,652	1,452	1,482	695	210	98	RI	72	74	88	42	19	6
IN	888	695	672	283	112	40	SC	309	281	300	139	84	27
IA	504	508	499	152	65	24	SD	151	156	144	75	29	9
KS	440	406	366	180	71	21	TN	609	576	555	279	91	27
KY	913	758	692	348	122	31	TX	1,882	1,699	1,677	1,020	397	85
LA	682	813	812	573	68	43	UT	241	219	200	118	33	8
ME	164	168	186	77	63	10	VT	87	110	125	58	27	11
MD	663	683	850	282	88	56	VA	894	769	783	336	237	60
MA	704	(NA)	527	190	89	38	WA	787	757	799	357	131	46
MI	997	1,001	1,016	327	129	115	WV	672	566	493	236	115	18
MN	611	669	671	310	108	30	WI	468	467	509	212	85	30
MS	468	464	461	272	36	29	WY	192	196	201	126	38	9

NA Not available. ¹ Includes funds for administration and miscellaneous, bond interest, bond redemption, and county and local roads and streets. ² Outlays for roads and bridges. ³ Includes traffic services.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1031. FEDERAL GRANTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY TRUST FUND AND URBAN MASS TRANSPORTATION ADMINISTRATION (UMTA), BY STATE: 1983

[For years ending Sept. 30]

STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA	
	Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)		Total (mil. dol.)	Per capita (dol.)	Total (mil. dol.)	Per capita (dol.)
U.S.	8,435	35.50	3,671	15.45	KY	171	48.05	10	2.56	ND	62	91.83	3	4.78
AL	183	48.25	5	1.26	LA	192	43.28	53	12.02	OH	246	22.89	102	9.47
AK	125	261.57	3	6.45	ME	51	44.40	3	2.40	OK	105	31.75	9	2.79
AZ	97	32.83	22	7.26	MD	333	77.28	102	23.67	OR	125	46.64	60	22.41
AR	93	40.06	3	1.20	MA	195	23.98	325	56.42	PA	366	30.74	433	36.38
CA	526	20.91	280	11.11	MI	234	25.82	64	7.04	RI	30	30.92	7	7.05
CO	144	45.78	21	5.84	MN	188	45.37	26	6.27	SC	97	29.79	2	4.6
CT	95	30.39	43	13.63	MS	185	32.75	1	.46	SD	61	87.50	1	1.04
DE	49	81.08	9	15.30	MO	198	39.79	31	6.15	TN	134	28.57	15	3.19
DC	25	40.39	212	340.91	MT	99	121.18	6	6.81	TX	430	27.37	24	1.51
FL	345	32.33	219	20.49	NE	90	56.47	8	4.93	UT	86	53.31	9	5.32
GA	296	51.62	82	14.23	NV	80	89.68	7	7.70	VT	37	69.89	1	1.26
HI	64	62.14	(2)	.30	NH	53	55.06	1	1.36	VA	252	45.42	19	3.37
ID	66	66.23	(2)	.38	NJ	172	23.07	178	23.80	WA	255	59.35	49	11.46
IL	324	28.20	308	26.82	NY	97	61.86	2	1.14	WV	153	77.99	5	2.38
IN	175	31.91	40	7.30	NY	532	30.14	613	34.68	WI	139	29.22	12	2.56
IA	135	46.37	11	3.69	NC	166	27.30	12	1.91	WY	69	134.19	(2)	.26
KS	127	52.57	5	1.92										

Z Less than \$500,000.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1983*, March 1984.

NO. 1032. STATE GASOLINE TAX RATES, 1982 AND 1983, AND MOTOR FUEL TAX RECEIPTS, 1982

[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE ¹ (cents per gal.)		Re- ceipts, ² 1982 (mil. dol.)	STATE	RATE ¹ (cents per gal.)		Re- ceipts, ² 1982 (mil. dol.)	STATE	RATE ¹ (cents per gal.)		Re- ceipts, ² 1982 (mil. dol.)
	1982	1983			1982	1983			1982	1983	
Total	13.1	18.75	(x)	IA	13	13	175	NC	12	12	368
Federal	4.0	9.0	(x)	KS	8	10	117	ND	8	13	34
State	9.1	9.75	10,541	KY ⁵	10	10	197	OH	11.7	12	579
AL	11	11	233	LA	8	8	192	OK	6.58	6.58	130
AK	8	8	20	ME	9	14	51	OR	8	8	96
AZ	10	12	132	MD	13.5	13.5	208	PA	11	12	709
AR	9.5	9.5	128	MA	9.9	11	258	RI	13	13	43
CA	9	9	931	MI	13	13	429	SC	13	13	220
CO	9	9	138	MN	13	16	261	SD	13	13	55
CT	11	11	162	MS	9	9	191	TN	9	9	253
DE	11	11	34	MO	9	7	124	TX	5	5	501
DC	14	14.8	22	MT	9	15	48	UT	11	11	81
FL	8	9.7	419	NE	13.9	15.5	116	VT	11	13	27
GA	7.5	7.5	247	NV	12	12	62	VA ⁵	11	11	340
HI	8.5	8.5	28	NH	14	14	56	WA	12	16	245
ID	12.5	14.5	61	NJ	8	8	288	WV	10.5	10.5	99
IL	7.5	11	368	NY	11	11	84	WI	13	15	287
IN	11.1	11.1	313		8	8	454	WY	8	8	36

X Not applicable. ¹ In effect Dec. 31. ² Represents net receipts. ³ Estimated. ⁴ Represents weighted average based on net gallons taxed. ⁵ Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more. ⁶ .09 cents per gallon is for inspection fee.

NO. 1033. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1970 TO 1984

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983 ¹	1984 ²
Total debt issued ³	1,886	2,239	2,230	1,883	1,904	2,094	2,574	3,155	3,430	3,460
State	1,305	1,412	1,183	942	941	1,128	965	1,555	1,740	1,650
County and township	174	222	339	238	279	276	305	350	390	400
Municipal	407	605	708	703	684	690	1,304	1,250	1,300	1,410
Total debt redeemed ⁴	1,252	1,492	1,648	1,593	1,751	1,706	2,464	1,831	1,744	1,762
State	782	908	980	934	960	1,022	1,579	1,146	1,029	1,032
County and township	152	166	179	170	177	209	201	185	210	220
Municipal	318	418	510	489	614	475	684	500	505	510
Total debt outstanding	19,107	23,801	25,037	25,327	25,463	25,851	25,981	27,285	28,971	30,669
State	13,903	17,422	18,187	18,175	18,176	18,282	17,668	18,077	18,785	19,406
County and township	1,885	1,922	2,007	2,075	2,090	2,157	2,261	2,426	2,606	2,766
Municipal	3,519	4,557	4,843	5,077	5,197	5,412	6,032	6,782	7,577	8,477

¹ Preliminary. ² Projection. ³ Excludes refunding issues. ⁴ Excludes redemptions by refunding.

Source of tables 1032 and 1033: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1034. MOTOR VEHICLES—SUMMARY: 1970 to 1983

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983
PASSENGER CARS										
Passenger car production	1,000	6,550	6,717	9,214	9,177	8,434	6,376	6,253	5,073	6,781
Passenger car factory sales	1,000	6,547	6,713	9,201	9,165	8,419	6,400	6,255	5,049	6,739
Passenger car (new), retail sales ¹	1,000	8,405	8,640	11,185	11,312	10,671	8,979	8,536	7,992	9,181
Domestic ²	1,000	7,116	7,050	9,104	9,308	8,341	6,581	6,209	5,759	6,795
Subcompact ³	1,000		700	953	1,191	1,671	1,604	1,630	1,489	1,776
Compact ³	1,000		2,336	2,364	2,391	2,130	1,659	1,568	1,257	1,110
Standard ³	1,000		1,956	2,769	2,647	2,147	1,358	1,250	1,377	1,825
Intermediate ³	1,000		2,058	3,018	3,079	2,393	1,957	1,757	1,641	2,071
Imports ⁴	1,000	1,285	1,587	2,076	2,000	2,329	2,398	2,327	2,223	2,386
TRUCKS										
Truck and bus production	1,000	1,734	2,270	3,489	3,723	3,046	1,634	1,690	1,912	2,424
Truck and bus factory sales	1,000	1,692	2,272	3,441	3,706	3,037	1,667	1,701	1,906	2,414
Truck and bus retail sales ⁵	1,000	1,746	2,351	3,486	3,914	3,236	2,232	1,872	2,248	2,709
Light duty (up to 14,000 GVW) ⁶	1,000	(NA)	2,076	3,145	3,547	2,881	1,964	1,747	2,054	2,521
Med. duty (14,001-26,000 GVW) ⁶	1,000	(NA)	169	172	164	152	92	74	46	48
Heavy duty (over 26,000 GVW) ⁶	1,000	126	106	169	203	223	176	152	138	141
MOTORCYCLES										
Motorcycle registrations, new ⁷	1,000	751	747	849	797	861	836	794	689	740
Motorcycle (new) retail sales ⁸	1,000	1,010	940	1,080	975	1,085	1,065	1,045	960	1,155
Motorcycle imports, total ⁹	1,000	1,091	948	860	935	887	1,120	1,057	917	540
Value ¹⁰	Mil. dol.	308	713	588	797	870	1,142	1,314	1,110	697
FOREIGN TRADE										
Passenger cars (new), exported ¹¹	1,000	285	640	697	706	793	617	548	379	554
Passenger cars (new), imported ¹²	1,000	2,013	2,075	2,791	3,025	3,006	3,248	2,999	3,067	3,667
Canada	1,000	693	734	850	833	677	595	564	703	837
Germany, Federal Republic of	1,000	675	370	424	416	496	471	376	338	330
Japan	1,000	381	696	1,342	1,593	1,617	1,992	1,912	1,823	2,112
Trucks (new) exports	1,000	91	219	198	243	251	186	166	124	132
Trucks (new) imports ¹²	1,000	186	295	529	743	877	747	733	697	785
Japan	1,000	27	142	228	358	397	483	458	556	430
Import value, new passenger cars ¹³	1,000	3,719	7,483	11,077	14,072	14,852	16,935	17,939	20,397	24,146
Trucks and buses, new ¹⁴	Mil. dol.	381	620	1,258	2,146	1,841	1,985	4,217	4,453	4,848
Export value ¹⁵	Mil. dol.	3,671	10,658	12,544	15,540	16,501	18,121	16,039	17,078	17,078
Passenger cars (new) ¹⁶	Mil. dol.	822	2,852	3,568	3,623	4,642	3,932	3,828	2,867	4,208
Trucks and buses (new) ¹⁶	Mil. dol.	636	2,305	2,098	2,752	3,267	3,277	3,247	2,642	2,130
Parts and accessories ¹⁴	Mil. dol.	2,413	5,501	6,877	8,173	8,681	9,106	10,946	10,530	10,740
VEHICLES IN USE, AND RETIRED										
Cars in use, total	Million	80.4	95.2	99.9	102.9	104.7	104.6	105.8	106.9	109.0
Under 3 years	Million	24.4	25.8	24.2	27.3	28.2	26.8	24.2	21.5	20.7
3-5 years	Million	24.9	27.0	30.0	27.3	25.2	25.5	28.8	29.9	28.8
6-8 years	Million	24.5	22.0	22.3	23.3	25.0	25.2	23.0	22.2	23.5
9-11 years	Million	7.7	13.9	14.2	14.6	14.9	14.8	16.0	17.9	18.9
12 years and over	Million	4.9	6.8	9.2	10.5	11.3	12.5	13.9	15.4	17.0
Average age	Years	5.6	6.0	6.2	6.3	6.4	6.6	6.9	7.2	7.4
Cars retired from use ¹⁵	1,000	7,461	5,689	8,234	7,907	9,312	8,405	7,542	6,921	8,243
Trucks in use, total	Million	17.7	24.8	28.2	30.5	32.6	35.2	36.1	37.0	38.1
Under 3 years	Million	4.7	6.9	7.7	7.4	7.3	8.1	9.7	10.7	9.5
3-5 years	Million	3.0	4.4	4.9	5.3	6.2	7.4	7.1	7.1	7.7
6-8 years	Million	1.9	3.2	3.5	3.8	4.0	4.4	4.9	5.7	6.5
9-11 years	Million	3.9	4.4	5.1	5.5	5.9	6.5	7.2	7.9	8.5
12 years and over	Million	3.9	4.4	5.1	5.5	5.9	6.5	7.2	7.9	8.5
Average age	Years	7.3	6.9	6.9	6.9	6.9	7.1	7.5	7.8	8.1
Trucks retired from use ¹⁵	1,000	837	908	1,668	1,428	1,916	1,732	1,519	1,459	1,491
VEHICLE DRIVERS LICENSES										
Total	Million	112	130	138	141	143	146	148	149	152
Percent male	Percent	56.8	54.3	53.9	53.7	53.5	53.2	53.0	52.8	52.3
Percent under 25 years old	Percent	22.1	22.6	22.1	21.9	21.8	21.5	20.7	20.7	20.2
TIRES AND BATTERIES SHIPMENTS										
Tires, passenger car, total ¹⁶	Million	166.6	167.0	189.6	193.9	174.0	145.9	165.3	167.5	182.0
Radials	Million	2.9	61.5	81.6	85.5	90.9	83.5	108.6	115.9	133.4
Replacement	Million	129.6	122.5	129.3	135.2	121.9	106.9	125.3	130.5	134.0
Tires, truck and bus, total ¹⁶	Million	25.7	27.3	37.2	42.7	39.9	31.1	35.8	33.8	36.9
Radials	Million	(NA)	8	1.8	3.1	4.1	3.8	9.2	10.4	13.4
Replacement	Million	16.7	19.8	25.9	30.0	28.9	24.4	28.5	28.1	30.3
Batteries, total ¹⁷	Million	46.9	52.9	70.7	73.2	69.3	61.6	65.5	64.6	69.0
Replacement automobile batteries	Million	37.9	39.3	54.6	56.4	53.7	50.1	53.6	54.2	56.1

NA Not available. ¹ Based on data from U.S. Dept. of Commerce. ² Includes domestic models produced in Canada. ³ Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Ward's Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1978, cars produced in U.S. by foreign manufacturer are included in subcompact. ⁴ Excludes domestic models produced in Canada. ⁵ Excludes motorcoaches and imports from foreign manufacturers. Beginning 1975, includes imports sold by franchised dealers of U.S. manufacturers. ⁶ Gross vehicle weight (fully loaded vehicle). ⁷ Source: R. L. Polk & Company, Detroit, MI, *New Motorcycle Registrations by States*. Excludes Oklahoma. Reproduction prohibited without Polk permission. ⁸ Estimates by Motorcycle Industry Council, Inc., Newport Beach, CA. Includes all-terrain vehicles. Excludes mopeds/motorized bicycles. ⁹ Source: Motorcycle Industry Council, Inc., Newport Beach, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. ¹⁰ Dutiable value for customs purposes prior to 1980 thereafter, C.I.F. value. ¹¹ 1970-1977, covers assembled vehicles only. Beginning 1978, includes chassis. ¹² Includes other countries, not shown separately. ¹³ Covers assembled and unassembled vehicles. ¹⁴ Includes rubber tires and tubes and used vehicles. ¹⁵ For years ending June 30. Represents vehicles failing to re-register. ¹⁶ Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *RMA Monthly Tire Report*. ¹⁷ Source: Battery Council International, Chicago, IL.

Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts, and Figures*, annual, and *World Motor Vehicle Data*, annual.

NO. 1035. MOTOR-VEHICLE REGISTRATIONS, 1960 TO 1983, AND DRIVERS LICENSES, 1982, BY STATE

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES ¹								Motor-cycles (incl. offi- cial) ¹ 1983, est.	DRIVERS LICENSES, 1982		
	1960, total	1970, total	1975, total	1980, total	1982, total	1983, est.				Total ²	Percent—	
						Total	Automobiles (incl. taxis)				Male	Under 25 yr. old
							Total	Per 1,000 popula- tion ²				
U.S.....	73,858	108,418	132,949	155,796	159,510	161,939	125,382	536	5,779	150,310	52.3	20.2
AL.....	1,282	1,966	2,493	2,938	3,039	3,078	2,197	555	69	2,316	52.0	21.2
AK.....	81	139	226	262	319	340	214	447	11	321	57.2	21.2
AZ.....	624	1,093	1,459	1,917	2,216	2,308	1,848	556	106	2,066	54.1	20.9
AR.....	708	1,043	1,283	1,574	1,481	1,466	955	410	24	1,591	51.7	20.5
CA.....	7,799	11,901	13,891	16,873	17,130	17,798	14,016	557	714	16,299	53.0	19.0
CO.....	924	1,442	1,925	2,342	2,502	2,516	1,847	589	118	2,182	52.2	22.9
CT.....	1,107	1,733	1,949	2,147	2,258	2,280	2,119	675	77	2,235	51.8	19.3
DE.....	192	312	351	397	415	423	339	559	12	433	51.4	20.5
DC.....	206	257	255	268	231	229	211	368	6	385	52.1	17.6
FL.....	2,367	4,120	5,395	7,614	8,335	8,954	7,299	683	233	7,979	51.9	18.1
GA.....	1,512	2,584	3,211	3,818	3,916	3,972	3,031	529	117	3,605	51.8	21.0
HI.....	231	405	462	570	586	593	532	520	7	561	55.5	18.7
ID.....	375	488	647	834	873	890	530	536	52	663	52.4	23.4
IL.....	3,776	5,238	6,344	7,477	7,242	7,256	5,840	508	293	6,965	52.4	20.9
IN.....	2,046	2,818	3,315	3,826	3,884	3,882	2,873	524	157	3,345	49.3	20.3
IA.....	1,325	1,790	2,099	2,329	2,346	2,356	1,664	573	239	1,927	51.0	21.6
KS.....	1,163	1,548	1,805	2,007	2,061	2,087	1,398	576	130	1,694	50.9	21.3
KY.....	1,198	1,763	2,245	2,593	2,615	2,633	1,817	489	64	2,141	53.5	19.6
LA.....	1,177	1,742	2,188	2,779	2,800	2,818	2,036	459	69	2,540	53.4	28.2
ME.....	374	510	648	724	743	770	568	496	48	757	52.0	19.9
MD.....	1,155	1,672	2,423	2,903	2,899	2,933	2,453	570	75	2,741	51.9	19.6
MA.....	1,803	2,675	3,107	3,749	3,750	3,749	3,298	572	99	3,641	51.8	19.0
MI.....	3,306	4,569	5,645	6,488	6,250	6,338	5,007	552	223	6,390	52.2	24.4
MN.....	1,592	2,207	2,525	3,091	3,278	3,327	2,347	566	173	2,397	52.0	20.0
MS.....	723	1,117	1,377	1,577	1,593	1,610	1,230	475	29	1,734	53.7	20.8
MO.....	1,720	2,408	2,866	3,271	3,412	3,439	2,565	518	98	3,297	51.6	20.7
MT.....	373	485	611	680	758	783	477	584	47	492	54.8	22.3
NE.....	794	974	1,165	1,254	1,215	1,229	814	510	45	1,084	51.7	22.0
NV.....	175	355	464	655	710	719	519	582	24	655	53.4	19.2
NH.....	266	390	485	704	774	781	686	694	59	677	52.0	19.5
NJ.....	2,401	3,586	4,155	4,761	4,917	4,940	4,402	589	104	5,338	52.9	17.5
NM.....	426	637	827	1,068	1,193	1,234	806	576	63	943	52.0	20.9
NY.....	5,067	6,718	7,591	8,002	8,235	8,277	7,180	406	192	8,992	53.2	16.8
NC.....	1,720	2,826	3,690	4,532	4,589	4,588	3,468	570	117	3,903	51.7	21.1
ND.....	345	429	551	627	653	665	386	568	32	428	52.4	23.0
OH.....	4,087	5,974	7,179	7,771	7,636	7,596	6,305	587	282	7,669	52.0	22.6
OK.....	1,184	1,713	2,113	2,583	2,780	2,840	1,811	549	134	2,039	50.7	20.7
OR.....	919	1,369	1,628	2,081	2,075	2,085	1,463	550	89	1,894	52.9	18.7
PA.....	4,287	5,818	7,659	9,826	6,725	6,736	5,613	472	233	7,351	52.8	18.3
RI.....	341	488	563	623	586	585	505	529	29	600	51.5	19.6
SC.....	879	1,360	1,772	1,996	1,975	2,045	1,594	488	35	1,959	50.5	21.2
SD.....	354	426	521	601	615	627	384	549	39	486	52.1	24.3
TN.....	1,307	2,050	2,727	3,271	3,381	3,353	2,746	586	83	2,902	51.6	19.9
TX.....	4,457	6,693	8,396	10,475	11,388	11,627	8,110	516	338	10,154	52.8	20.9
UT.....	417	664	845	992	1,038	1,048	723	447	66	914	49.6	24.0
VT.....	152	229	287	347	351	353	271	516	22	355	52.8	18.8
VA.....	1,426	2,263	3,251	3,626	3,705	3,699	3,144	506	79	3,625	50.6	20.8
WA.....	1,377	2,102	2,540	3,225	3,237	3,217	2,286	533	136	2,774	52.5	18.4
WV.....	601	801	966	1,320	1,442	1,442	802	408	56	1,411	52.7	20.1
WI.....	1,600	2,182	2,591	2,941	3,162	3,203	2,570	541	210	3,036	51.9	21.1
WY.....	207	247	337	467	508	522	303	589	22	396	55.1	23.4

¹ Excludes vehicles owned by military services. ² Based on resident population as of July 1.

³ Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and *Drivers Licenses*, annual.

No. 1036. MOTOR VEHICLES—REGISTRATIONS, FACTORY SALES, AND RETAIL SALES: 1950 TO 1983

[Minus sign (—) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970, series Q 148-155*]

YEAR	REGISTRATIONS ¹ (mil.)			Motor-cycle registrations ² (1,000)	FACTORY SALES (1,000)			PASSENGER CARS RETAIL SALES (1,000)			AVERAGE ANNUAL PERCENT CHANGE ⁴	
	Total cars, trucks, buses	Pas- senger cars ²	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses ³	Total	Do- mestic	Im- ports	Registra- tions ⁵	Retail sales
1950.....	49.2	40.4	8.8	454	8,003	6,666	1,337	(NA)	(NA)	(NA)	* 7.4	(NA)
1955.....	62.7	52.1	10.6	412	9,169	7,920	1,249	7,466	7,408	58	5.0	(NA)
1960.....	73.9	61.7	12.2	574	7,869	6,676	1,194	6,641	6,142	499	3.3	-2.3
1965.....	90.4	75.3	15.1	1,392	11,057	9,306	1,752	9,332	8,763	569	4.1	7.0
1967.....	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	769	3.5	-5.5
1968.....	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,825	1,031	4.1	15.8
1969.....	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,464	1,118	4.2	-1.8
1970.....	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	3.2	-12.3
1971.....	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	4.2	22.0
1972.....	118.8	97.1	21.7	3,780	11,271	8,824	2,447	10,950	9,327	1,623	5.1	6.8
1973.....	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	5.8	4.5
1974.....	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	3.4	-22.5
1975.....	132.9	108.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2.3	-2.6
1976.....	138.5	110.4	28.2	4,989	11,480	8,500	2,979	10,110	8,611	1,498	4.2	17.0
1977.....	142.4	112.3	30.1	4,879	12,642	9,201	3,441	11,185	9,109	2,076	2.8	10.8
1978.....	148.4	116.6	31.8	4,867	12,871	9,165	3,706	11,312	9,312	2,000	4.2	1.1
1979.....	151.8	118.4	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	2.3	-5.7
1980.....	155.8	121.6	34.1	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2.6	-15.9
1981.....	158.5	123.5	35.0	5,831	7,958	6,255	1,701	8,536	6,209	2,327	1.7	-4.9
1982.....	159.5	123.7	35.8	5,743	6,955	5,049	1,906	7,982	5,759	2,223	1.8	-6.5
1983.....	161.9	125.4	36.6	5,779	9,153	6,739	2,414	9,181	6,795	2,386	1.5	11.5

NA Not available. ¹ Excludes Alaska and Hawaii prior to 1960. Includes publicly owned vehicles. Excludes military services' vehicles. ² Includes taxis. ³ Includes standard equipment. ⁴ From prior year shown. ⁵ Excludes motorcycles.

* Change from 1945. ⁷ Estimate.
Source: Registrations—U.S. Federal Highway Administration, *Highway Statistics*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

No. 1037. TRUCKS AND TRUCK-MILES, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1977

[Data are based on a stratified probability sample of trucks drawn from current registrations on file with motor vehicle departments in the 50 States and DC]

ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)		ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)	
	Total	Exclud- ing pickups, panels	Total	Exclud- ing pickups, panels		Total	Exclud- ing pickups, panels	Total	Exclud- ing pickups, panels
Total trucks.....	26,213	4,062	312.5	74.2	Body type—Con.:				
Major use:					Vans ¹	887	887	32.7	32.7
Agriculture, forestry and lumbering	4,466	1,203	40.0	9.6	Utility truck	201	201	2.2	2.2
Construction	1,765	601	25.7	8.1	Dump truck	452	452	6.4	6.4
Manufacturing	368	197	8.8	6.2	Tank truck	272	272	7.3	7.3
Wholesale and retail trade	2,008	759	36.6	17.3	All other	471	471	6.7	6.7
For hire	547	453	23.7	22.0	Size-class: ²				
Personal					Light	22,395	680	238.4	5.5
transportation	14,261	35	143.4	.1	Medium	1,583	1,153	16.2	10.9
Utilities and services	2,122	536	26.1	5.7	Light-heavy	802	796	8.2	8.2
All other	676	278	9.3	5.2	Heavy-heavy	1,433	1,433	49.7	49.7
Body type:					Annual miles:				
Pickup	17,632	(x)	182.9	(x)	Less than 5,000 miles ..	6,280	1,422	13.1	2.6
Panel, multi-stop ¹	4,519	(x)	55.4	(x)	5,000-9,999 miles	6,298	735	43.5	4.9
Platform and cattlerack	1,779	1,779	18.9	18.9	10,000-19,999 miles	9,691	810	122.7	10.7
					20,000-29,999 miles	2,408	358	54.1	8.2
					30,000-49,999 miles	980	302	34.2	11.2
					50,000 miles or more	657	435	44.9	36.6

X Not applicable. ¹ Vans similar to panel trucks are included in panel, multi-stop. ² Gross vehicle weight (empty-weight of the vehicle plus the maximum carried load). Light=10,000 lbs. or less; medium=10,001-19,500 lbs.; light-heavy=19,501-26,000 lbs.; and heavy-heavy=26,001 lbs. or more.

Source: U.S. Bureau of the Census, *U.S. Census of Transportation: 1977, TC77-T52*.

No. 1038. MOTOR VEHICLE OUTPUT AND TRADE IN NATIONAL INCOME ACCOUNTS: 1970 TO 1983

[In billions of dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales, adjusted for changes in inventories and net balance of vehicle exports and imports]

YEAR	CURRENT DOLLARS							CONSTANT (1972) DOLLARS						
	GNP ¹	Vehicle output				Vehicle		GNP ¹	Vehicle output				Vehicle	
		Total	Per- cent of GNP	Auto	Truck	Ex- port value	Im- port value		Total	Per- cent of GNP	Auto	Truck	Ex- port value	Im- port value
1970	993	37.5	3.8	28.7	8.8	1.4	4.4	1,086	39.2	3.6	29.8	9.4	1.5	5.1
1971	1,078	50.2	4.7	39.1	11.1	1.8	5.9	1,121	50.1	4.5	38.9	11.2	1.8	6.2
1972	1,186	56.2	4.7	41.6	14.6	2.0	6.8	1,186	56.2	4.7	41.6	14.6	2.0	6.8
1973	1,326	64.2	4.8	46.2	18.0	2.7	7.8	1,255	64.3	5.1	46.4	17.9	2.7	7.4
1974	1,434	58.9	4.1	39.2	19.7	3.7	8.8	1,248	55.0	4.4	37.1	17.9	3.4	7.5
1975	1,549	58.3	3.8	40.7	17.6	5.1	8.4	1,234	50.0	4.1	35.7	14.3	4.3	6.4
1976	1,718	80.7	4.7	55.9	24.8	5.4	11.0	1,300	64.2	4.9	45.3	18.9	4.2	7.9
1977	1,918	98.0	5.1	65.1	32.9	5.6	13.3	1,370	73.9	5.4	50.7	23.2	4.2	8.6
1978	2,164	109.7	5.1	69.5	40.2	6.5	17.4	1,439	76.5	5.3	50.3	26.2	4.4	10.2
1979	2,418	107.2	4.4	68.0	39.2	8.0	18.6	1,479	70.2	4.7	47.0	23.2	5.1	9.9
1980	2,632	87.0	3.3	60.8	26.2	7.1	20.9	1,475	53.3	3.6	39.4	13.9	4.1	10.2
1981	2,958	99.9	3.4	70.6	29.3	7.2	22.6	1,512	57.0	3.8	42.8	14.2	3.9	10.1
1982	3,069	97.2	3.2	67.0	30.2	5.3	25.3	1,480	53.0	3.6	38.9	14.1	2.7	10.9
1983	3,305	125.0	3.8	88.7	36.3	6.1	29.1	1,535	66.6	4.3	49.9	16.7	3.0	12.3

¹ For definition of gross national product (GNP), see text, p. 427.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues.

No. 1039. AUTOMOBILES—FACTORY-INSTALLED EQUIPMENT: 1970 TO 1983

[Refers to model-year production. For certain items, such as air-conditioning, a significant number of units are installed on new vehicles after they leave the factory]

EQUIPMENT	UNITS INSTALLED (mil.)							PERCENT OF CARS PRODUCED						
	1970	1975	1979	1980	1981	1982	1983	1970	1975	1979	1980	1981	1982	1983
Transmission:														
Automatic	7.2	6.2	8.2	6.1	5.6	4.7	5.2	91.0	91.6	90.9	82.2	85.3	85.9	87.0
Manual	7	6	8	1.3	1.0	8	8	8.9	8.4	9.0	17.8	14.6	14.2	13.0
V-8	6.7	4.9	5.6	2.3	1.9	1.6	1.8	84.2	71.4	61.7	31.6	29.0	28.9	31.0
6-cylinder engine	1.2	1.3	2.1	2.7	2.3	1.7	1.7	15.7	19.6	23.1	36.0	36.0	31.1	29.3
4-cylinder engine	(NA)	6	1.4	2.4	2.2	2.2	2.4	(NA)	9.0	15.2	32.4	35.0	40.0	39.7
Diesel engine	-	-	.1	.4	.5	.3	.1	-	-	1.5	4.9	7.3	4.9	1.4
Power brakes	4.4	5.2	7.7	6.2	5.6	5.0	5.6	56.0	75.8	85.5	83.1	86.0	90.2	94.0
Power steering	6.4	6.1	8.2	6.2	5.7	4.9	5.4	81.2	89.7	90.8	92.9	87.1	89.7	91.0
Power windows ¹	1.3	1.6	2.7	1.6	1.7	1.8	2.3	16.7	24.1	29.5	22.3	26.6	32.5	39.0
Air-conditioning	4.8	4.9	7.3	5.4	5.1	4.5	4.9	60.9	73.1	81.0	72.6	78.4	81.8	82.0
Tinted glass ²	5.5	5.5	8.0	5.9	5.6	4.8	(NA)	69.5	80.6	88.6	80.8	85.3	87.4	(NA)

- Represents zero. NA Not available. ¹ Includes station wagon power rear windows.

² Covers windshield and other glass.

Source: Chilton Company, Radnor, PA, *Annual Statistical Issue, Automotive Industries*. (Copyright.)

No. 1040. RECREATIONAL VEHICLES—NUMBER AND RETAIL VALUE OF SHIPMENTS: 1970 TO 1983

TYPE	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
NUMBER (1,000)													
Total	380.3	583.0	528.8	295.8	339.6	541.1	533.9	526.3	307.7	181.4	239.1	258.0	356.0
Motorized homes	30.3	118.8	129.0	68.9	96.6	256.1	280.2	293.6	172.6	99.9	135.2	152.5	223.7
Travel trailers	138.0	250.9	212.3	126.3	150.6	189.7	167.9	159.8	90.2	52.0	63.8	65.5	90.0
Folding camping trailers	116.1	110.2	97.7	55.2	48.1	53.3	53.9	48.2	31.1	24.5	35.0	34.3	37.5
Truck campers	95.9	105.1	89.8	45.4	44.3	42.0	31.9	24.7	13.8	5.0	5.1	5.7	8.8
RETAIL VALUE (mil. dol.)													
Total	1,122	2,365	2,322	1,392	2,320	4,284	5,327	5,683	3,538	1,952	2,775	3,505	6,324
Motorized homes	318	1,011	1,153	624	1,251	2,923	3,876	4,329	2,682	1,381	2,019	2,701	5,099
Travel trailers	445	971	843	567	856	1,132	1,229	1,153	725	465	631	666	1,067
Folding camping trailers	175	166	180	109	101	117	123	116	83	69	105	110	122
Truck campers	183	218	167	92	112	112	99	85	48	17	20	28	36

Source: Recreation Vehicle Industry Association, Chantilly, VA, *RVs . . . The Family Camping Vehicle, A Year-End Report/1983*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

NO. 1041. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1960 TO 1983

[1983 data preliminary. See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224-232]

ITEM	Unit	1960	1965	1970	1972 ¹	1975	1978	1979	1980	1981	1982	1983
Motor vehicle accidents ²	Million	10.4	13.2	16.0	17.0	16.5	18.3	18.1	17.9	18.0	18.1	(NA)
Cars	Million	16.0	20.3	23.5	24.5	22.5	24.6	22.9	22.8	22.9	23.2	(NA)
Trucks	Million	2.0	2.6	3.2	3.5	3.8	5.5	5.4	5.5	5.6	5.8	(NA)
Motorcycles	1,000	100	235	305	343	372	480	480	560	540	550	(NA)
Motor vehicle deaths within 1 yr. ³	1,000	38.1	49.2	54.6	56.3	45.9	52.4	53.5	53.2	51.4	46.0	44.6
Noncollision accidents ⁴	1,000	11.9	14.9	15.4	15.8	12.7	14.5	14.8	14.7	14.3	12.8	12.5
Collision accidents:												
With other motor vehicles	1,000	14.8	20.8	23.2	23.9	19.5	22.4	23.1	23.0	22.5	19.8	19.3
With pedestrians	1,000	7.9	8.9	9.9	10.3	8.4	9.6	9.8	9.7	9.1	8.6	8.0
With fixed objects ⁵	1,000	1.7	2.2	3.8	3.9	3.1	3.6	3.7	3.7	3.4	3.0	3.0
Deaths within 30 days ⁶	1,000	36.4	47.1	52.6	54.6	44.5	50.3	51.1	51.1	49.3	43.9	42.6
Vehicle occupants	1,000	27.9	36.8	40.6	41.4	32.8	37.1	37.2	36.8	35.5	31.2	30.7
Pedestrians	1,000	7.2	8.0	9.0	9.2	7.5	7.8	8.1	8.1	7.8	7.3	6.8
Motorcyclists ⁷	1,000	.8	1.7	2.3	3.0	3.2	4.6	4.9	5.1	4.9	4.5	4.3
Bicyclists	1,000	.5	.7	.8	1.0	1.0	.9	.9	1.0	.9	.9	.8
Traffic death rates: ⁸												
Per 100,000 resident population	Rate	20.2	24.3	25.8	26.2	20.7	22.7	22.8	22.6	21.5	19.0	18.2
Per 100,000 registered vehicles	Rate	48.9	51.3	47.3	44.5	32.3	32.8	32.0	31.6	30.0	26.6	25.7
Per 100 million vehicle miles	Rate	5.1	5.3	4.7	4.3	3.4	3.3	3.3	3.3	3.2	2.8	2.6
Per 100,000 licensed drivers	Rate	41.7	47.8	47.2	46.1	34.3	35.7	35.7	35.2	34.1	29.2	28.3
Motor vehicle accidents ⁹	Million	11.4	14.7	22.1	24.9	24.9	27.7	26.7	24.1	28.3	28.5	(NA)
Injuries ⁹	1,000	3,078	3,982	4,983	5,190	4,978	5,798	5,681	5,230	5,019	4,490	(NA)
Economic loss ⁹	Bil. dol.	10.2	14.2	23.5	28.7	36.1	52.6	56.4	57.1	58.7	60.2	(NA)

NA Not available. ¹ Represents peak year for deaths from motor vehicle accidents. ² Covers only accidents occurring on the road. ³ Deaths that occur within one year of accident. Includes collision categories not shown separately. ⁴ Beginning 1970, not comparable with previous years due to classification change. ⁵ Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. ⁶ Includes motor scooters and motorized bicycles (mopeds). ⁷ Based on 30-day definition of traffic deaths. ⁸ Source: Insurance Information Institute, New York, NY, *Insurance Facts*. Estimates based on official reports from a representative cross-section of States, includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. ⁹ Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage.

Source: Except as noted, National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

NO. 1042. DEATHS FROM MOTOR VEHICLE ACCIDENTS—BY STATES: 1970 TO 1981

[Data differ from table 1041 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Deaths for 1979-80 classified according to the ninth revision of the *International Classification of Diseases*, for earlier years classified according to the revision in use at the time; see text, p. 55. Data based on Vital Registration System, see Appendix III]

STATE	1970	1972 ¹	1975	1979	1980	1981	STATE	1970	1972 ¹	1975	1979	1980	1981
U.S.	54,845	56,528	46,032	53,786	53,476	51,669	S.A.	9,796	10,600	8,358	9,379	9,767	9,689
Region:							DE	158	130	129	127	164	116
N. East.....	8,850	8,992	7,431	8,240	8,255	7,818	MD	809	852	566	722	822	812
Midwest.....	14,629	14,670	11,293	12,693	12,244	11,333	DC	140	100	91	71	79	81
South.....	20,792	21,964	18,029	20,582	21,014	21,217	VA	1,251	1,256	1,069	1,070	1,111	1,051
West.....	10,574	10,902	9,279	12,271	11,963	11,301	WV	561	578	499	579	583	486
N.E.	2,095	2,180	1,953	2,285	2,246	1,931	NC	1,801	2,026	1,580	1,580	1,588	1,563
ME.....	288	252	235	256	264	221	SC	1,070	1,148	837	927	895	871
NH.....	182	172	155	182	192	154	GA	1,825	1,940	1,420	1,608	1,558	1,511
VT.....	116	126	124	154	131	103	FL	4,859	4,972	2,067	2,695	2,967	3,198
MA.....	918	1,042	895	992	933	814	E.S.	2,181	2,181	3,981	4,240	3,995	3,971
RI.....	143	144	140	146	142	131	KY	1,083	1,114	895	942	865	865
CT.....	448	444	404	565	584	508	TN	1,525	1,526	1,280	1,366	1,280	1,230
M.A.	6,755	6,812	5,478	5,955	6,009	5,887	AL	1,297	1,356	1,087	1,131	1,054	1,084
NY.....	3,117	3,140	2,077	2,500	2,717	2,623	MS	947	976	629	801	796	792
NJ.....	1,289	1,352	1,299	1,173	1,130	1,203	W.S.C.	6,146	6,392	5,790	6,983	7,252	7,557
PA.....	2,349	2,320	2,102	2,282	2,162	2,061	AR	595	750	577	550	607	554
E.N.C.	9,623	9,514	7,361	8,583	8,000	7,423	LA	1,194	1,136	993	1,258	1,261	1,270
OH.....	2,488	2,338	1,652	2,244	1,976	1,745	OK	787	792	748	942	1,006	1,049
IN.....	1,587	1,578	1,139	1,351	1,213	1,212	TX	3,570	3,714	3,472	4,213	4,378	4,684
IL.....	2,267	2,216	1,816	2,053	1,885	1,882	Mt.	3,549	3,764	3,206	4,211	4,071	3,922
MI.....	2,172	2,236	1,811	1,899	1,917	1,835	MT	340	408	294	346	339	345
WI.....	1,109	1,148	943	1,036	1,009	949	ID	320	324	291	353	345	301
W.N.C.	5,006	5,156	3,932	4,110	4,244	3,910	WY	210	196	210	250	246	276
MN.....	1,028	1,052	798	914	900	812	CO	607	745	621	751	783	800
IA.....	946	904	714	683	662	659	NM	568	588	555	588	617	501
MO.....	1,479	1,500	1,105	1,236	1,239	1,097	AZ	782	853	713	1,076	983	952
ND.....	194	206	183	157	184	190	UT	354	354	285	352	370	392
SD.....	240	312	216	230	238	186	NV	278	290	236	405	388	355
NE.....	435	504	385	341	406	383	Pac.	7,025	7,138	6,073	6,060	7,892	7,379
KS.....	684	678	531	549	615	583	WA	902	836	804	1,113	1,048	936
							OR	739	774	582	720	698	675
							CA	5,114	5,300	4,414	5,917	5,860	5,498
							AK	107	64	120	87	91	102
							HI	163	164	153	223	195	168

¹ Represents peak year for deaths from motor vehicle accidents.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual, and unpublished data.

NO. 1043. LICENSED DRIVERS, FATAL MOTOR-VEHICLE ACCIDENTS, AND ALCOHOL INVOLVEMENT, BY AGE OF DRIVER: 1983

ITEM	Unit	Total	AGE OF DRIVER						55-64 years	65 years and over
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years		
Licensed drivers ¹	1,000.....	150,310	4,178	14,165	11,949	37,570	26,877	20,023	18,631	16,794
Percent distribution.....	Percent.....	100.0	2.8	9.5	8.0	25.0	17.9	13.3	12.4	11.1
Licensed drivers involved in fatal accidents.....	1,000.....	56	3	10	7	15	8	5	4	4
Percent distribution.....	Percent.....	100	5	18	13	27	14	9	7	7
Drinking drivers fatal accidents ²	Number.....	21,000	850	4,670	3,330	7,140	2,200	1,590	830	470
Percent distribution.....	Percent.....	100	4	22	16	34	10	8	4	2

¹ Source: U.S. Federal Highway Administration, *Highway Statistics*, annual. ² Estimate based on 15 "good" reporting States in the *Fatal Accident Reporting System*.

Source: Except as noted, U.S. National Highway Traffic Safety Administration, unpublished data from the *Fatal Accident Reporting System*.

NO. 1044. FATAL MOTOR-VEHICLE ACCIDENTS—NUMBER OF ACCIDENTS, OCCUPANTS, AND FATALITIES, BY TYPE OF VEHICLE: 1980 TO 1982

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS ¹			OCCUPANTS			OCCUPANT FATALITIES		
	1980	1981	1982	1980	1981	1982	1980	1981	1982
Total ².....	47,264	44,000	39,082	103,424	102,792	93,146	41,927	40,424	35,646
Passenger cars ³	31,560	30,828	27,548	66,731	66,542	59,327	27,449	26,645	23,330
Small subcompact.....	5,584	6,100	5,586	9,576	10,683	9,778	4,994	5,456	4,930
Subcompact.....	2,945	3,384	3,302	5,024	5,595	5,792	2,506	2,739	2,678
Compact.....	8,159	8,497	7,749	14,725	15,587	14,403	6,282	6,243	5,881
Intermediate.....	9,602	9,142	7,984	17,358	16,706	14,615	6,280	5,678	4,800
Full size.....	6,049	5,364	4,258	10,914	9,608	7,572	3,454	2,954	2,237
Motor cycles.....	4,879	4,671	4,201	6,231	5,948	5,393	4,961	4,746	4,270
Moped, mini bike.....	180	157	177	215	192	229	183	160	183
Light trucks ²	10,841	10,301	7,597	19,029	18,358	17,378	6,568	6,137	5,590
Pickup.....	8,796	8,356	7,842	14,855	14,306	13,536	5,463	5,097	4,677
Van.....	2,009	1,961	1,722	3,779	3,759	3,414	1,000	958	614
Medium trucks.....	1,076	871	666	1,428	1,190	908	285	235	154
Heavy trucks ³	4,036	4,121	3,754	4,928	4,994	4,647	976	897	789
Single-unit ⁴	377	333	283	453	386	356	89	57	52
Two-unit ⁵	3,396	3,555	3,072	4,116	4,292	3,787	812	782	683
Multi-unit.....	148	150	129	173	183	145	41	34	25
Buses.....	329	340	288	892	1,014	987	46	56	35

¹ Each accident involving multiple types of vehicles is recorded in each category; therefore, the aggregate of all types will exceed the total number of accidents. ² Includes other types and unknown, not shown separately. ³ Small subcompact, wheel base less than 96 in.; subcompact, 96 in. to 101 in.; compact, 102 in. to 111 in.; intermediate, 112 in. to 120 in.; and full size, greater than 120 in. ⁴ Gross vehicle weight greater than 26,000 lbs. ⁵ Tractor-trailer combination.

Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

NO. 1045. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS: 1973 TO 1983

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Motor vehicles:												
Total recall campaigns ¹	Number.....	251	247	217	209	246	271	275	167	156	135	140
Domestic.....	Number.....	208	208	190	169	195	199	218	129	128	107	110
Foreign.....	Number.....	43	39	27	40	51	72	57	38	28	28	30
Total vehicles recalled.....	1,000.....	7,000	2,877	2,109	3,492	12,923	9,063	8,919	4,863	9,405	1,914	6,114
Domestic.....	1,000.....	6,667	2,345	1,829	3,019	10,693	7,921	6,997	3,939	7,379	1,401	3,090
Vehicles recalled by 4 leading auto manufacturers.....	1,000.....	6,477	2,194	1,602	2,854	10,331	7,670	6,989	3,730	7,247	1,324	3,021
Foreign.....	1,000.....	333	531	280	474	2,230	1,141	1,922	924	2,026	513	3,024
Motor vehicle tires:												
Recall campaigns ¹	Number.....	20	26	22	28	35	31	42	24	25	17	21
Tires recalled.....	1,000.....	132	1,094	72	464	471	14,686	235	7,070	125	131	95

¹ A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Defect Recall Campaigns*, annual.

NO. 1046. MOTOR VEHICLE TRAVEL, BY TYPE OF VEHICLE, AND SPEED: 1970 TO 1982

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Urban travel includes all travel in municipalities and urbanized areas. All other travel is classed as rural. Speed trend data for 1970-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. Minus sign (-) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total travel.....	1,121	1,268	1,309	1,286	1,330	1,412	1,477	1,548	1,529	1,521	1,556	1,592
Average annual percent change.....	4.8	6.4	3.2	-1.8	3.5	6.2	4.6	4.8	-1.2	-0.5	2.3	2.3
Passenger cars ².....	901	1,004	1,037	1,013	1,051	1,098	1,141	1,194	1,163	1,130	1,125	1,149
Rural.....	406	436	444	427	441	462	475	501	478	459	480	483
Urban.....	495	568	592	586	610	637	666	694	684	671	645	666
Buses.....	5.0	5.1	5.0	5.1	5.1	5.8	5.9	6.1	6.1	6.4	6.5	6.6
Rural.....	2.8	3.0	2.9	3.0	3.0	3.2	3.2	3.2	3.2	3.3	3.0	3.1
Urban.....	2.2	2.1	2.1	2.1	2.2	2.6	2.7	2.9	2.9	3.1	3.5	3.6
Trucks and combinations.....	215	260	267	268	275	308	330	348	360	385	425	437
Rural.....	134	151	154	153	157	163	176	186	188	211	220	224
Urban.....	81	108	113	114	118	145	153	162	172	174	206	213
Average miles per vehicle (1,000):												
Passenger vehicles.....	9.8	10.0	9.8	9.2	9.4	9.5	9.6	9.8	9.3	8.9	8.7	8.9
Passenger cars ²	9.8	10.0	9.8	9.2	9.4	9.5	9.6	9.8	9.2	8.9	8.7	8.9
Buses.....	13.3	12.6	11.7	11.3	11.1	12.0	12.0	12.1	11.7	12.1	12.0	11.9
Trucks.....	11.5	12.2	11.5	10.9	10.6	11.1	11.0	11.0	10.6	11.4	12.3	12.4
Motor vehicle speed: ³												
Vehicles recorded (1,000).....	200	160	181	203	102	515	500	468	506	667	3,048	4,895
Avg. speed, all vehicles (miles per hr).....	63.8	64.9	65.0	57.6	57.6	58.2	58.8	58.8	58.3	57.5	57.9	59.0
Percent of vehicles exceeding—												
55 m.p.h.....	87	89	89	65	68	69	74	74	72	66	68	73
60 m.p.h.....	69	71	72	29	27	32	35	36	32	25	30	40
65 m.p.h.....	44	49	50	9	7	10	10	10	9	7	9	14

¹ Change from 1965. ² Includes taxicabs and motorcycles. ³ For 1970-1979, based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours; beginning 1980, based on all vehicles on rural interstate highways. Beginning 1976, for year ending Sept. 30.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and unpublished data.

NO. 1047. DOMESTIC MOTOR FUEL CONSUMPTION, BY TYPE OF VEHICLE: 1970 TO 1982

[Comprises all fuels (gas, diesel, or other fuels) used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVERAGE FUEL CONSUMPTION PER VEHICLE (gal.)				AVERAGE MILEAGE PER GALLON			
	All vehicles (bil. gal.)	Avg. annual percent change ¹	Cars ² (bil. gal.)	Buses ³ (bil. gal.)	Trucks ⁴ (bil. gal.)	All vehicles	Cars ²	Buses ³	Trucks ⁴	All vehicles	Cars ²	Buses ³	Trucks ⁴
1970.....	92.3	5.4	65.8	.9	25.6	830	722	2,481	1,365	12.14	13.58	5.34	8.39
1971.....	97.6	5.7	69.5	.9	27.1	838	723	2,382	1,368	12.19	13.73	5.36	8.38
1972.....	105.1	6.7	73.5	.9	30.7	859	730	2,165	1,446	12.07	13.87	5.80	8.59
1973.....	110.5	6.2	78.0	.8	31.6	851	736	1,991	1,381	11.85	13.29	5.86	8.45
1974.....	106.3	-3.6	74.2	.9	31.2	788	676	1,919	1,268	12.09	13.65	5.90	8.57
1975.....	109.0	2.5	76.5	.9	31.8	790	685	1,937	1,227	12.20	13.74	5.75	8.68
1976.....	115.7	6.2	78.8	1.0	35.9	807	685	2,015	1,292	12.20	13.93	5.98	8.58
1977.....	119.6	3.4	80.7	1.0	38.0	804	680	2,002	1,284	12.34	14.15	5.98	8.66
1978.....	125.1	4.6	83.8	1.0	40.3	813	688	2,041	1,270	12.38	14.26	5.95	8.64
1979.....	122.1	-2.4	80.2	1.0	40.9	765	638	1,966	1,225	12.52	14.49	5.97	8.82
1980.....	115.0	-5.8	73.7	1.1	40.1	711	579	2,034	1,194	13.23	15.32	5.95	9.58
1981.....	114.5	-0.4	71.7	1.1	41.6	697	555	2,019	1,209	13.60	15.68	5.92	10.21
1982.....	113.4	-0.9	69.7	1.1	42.5	686	539	2,003	1,207	14.05	16.48	5.93	10.27

¹ From prior year shown. For 1970, change from 1965. ² Includes taxicabs and motorcycles. ³ Includes school buses.

⁴ Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1048. DOMESTIC MOTOR GASOLINE SUPPLY: 1973 TO 1984

(In 1,000 barrels per day, except as noted)

YEAR	SUPPLY ¹			Pro- duction	Net im- ports	Stocks ² (mil. bbls.)	YEAR AND MONTH	SUPPLY ¹			Pro- duction	Net im- ports	Stocks ² (mil. bbls.)
	Total	Unleaded						Total	Unleaded				
		Total	Per- cent						Total	Per- cent			
1973, avg.....	6,674	(NA)	(NA)	6,535	130	209	1983: March..... June..... Sept..... Dec.....	6,836	3,622	53.0	5,806	163	223
1974, avg.....	6,537	(NA)	(NA)	6,360	202	218							
1975, avg.....	6,675	(NA)	(NA)	6,520	162	235							
1976, avg.....	6,978	1,508	21.6	6,841	128	231							
1977, avg.....	7,177	1,976	27.5	7,033	215	258							
1978, avg.....	7,412	2,521	34.0	7,169	189	238	1984: March..... June ³	6,846	3,966	57.9	6,308	199	222
1979, avg.....	7,034	2,798	39.8	6,852	181	237							
1980, avg.....	6,579	3,067	46.6	6,506	139	261							
1981, avg.....	6,588	3,264	49.5	6,405	155	253							
1982, avg.....	6,539	3,409	52.1	6,338	177	235							
1983, avg.....	6,622	3,647	55.1	6,340	237	222							

NA Not available. ¹ Production plus net imports less net increase in primary stocks. ² End of year or month.³ Preliminary.Source: U.S. Energy Information Administration, *Monthly Energy Review*, June 1984, and earlier issues.

NO. 1049. GASOLINE RETAIL PRICES—SELECTED COUNTRIES: 1973 TO 1982

(In U.S. cents per U.S. gallon, except percent. As of July, except as indicated. Price includes tax except as noted. For most countries, based on exchange rates in effect as of July 31 of year shown. For explanation of average annual percent change, see Guide to Tabular Presentation)

ITEM	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
United States: ¹ Regular unleaded.....	(NA)	(NA)	(NA)	61	66	67	90	125	138	133
Regular, leaded.....	40	53	57	59	62	63	86	119	131	126
Premium, leaded.....	45	57	61	64	67	69	92	128	144	145
Tax ²	11	11	12	12	12	13	14	14	14	14
France, Paris: Regular.....	106	132	156	140	170	215	243	297	241	224
Tax.....	82	81	94	81	110	130	167	170	111	122
Premium.....	115	143	169	151	184	232	262	317	255	241
Italy, Rome: Regular.....	89	169	166	174	206	216	244	308	273	265
Tax.....	79	120	115	116	153	160	166	189	167	160
Premium.....	105	177	171	181	215	225	253	315	284	279
United Kingdom: Regular.....	78	104	127	104	118	114	218	250	262	(NA)
Tax ³	48	45	41	44	43	47	70	124	136	(NA)
Premium.....	81	108	131	105	121	119	221	255	265	255
Germany, F.R., Bonn: Regular.....	118	127	125	139	144	168	209	246	232	204
Tax ⁴	72	65	65	65	73	81	91	123	111	82
Premium.....	131	137	134	148	154	176	219	257	242	215
Canada, Ottawa: Regular.....	49	57	66	66	69	67	71	81	116	129
Tax.....	19	19	23	29	26	26	24	25	31	32
Premium.....	53	62	67	72	75	73	78	89	126	140
Mexico, Mexico City: Regular.....	24	42	64	65	46	47	47	45	44	48
Tax.....	(NA)	(NA)	31	31	22	22	22	15	15	33
Premium.....	36	61	91	92	66	67	67	113	110	80
Japan, Tokyo: Regular.....	83	136	136	136	163	201	227	272	255	246
Tax ⁵	42	45	45	57	61	67	95	93	95	80
Premium.....	98	155	163	151	178	223	246	289	272	261

NA Not available. ¹ 1973 prices for regular and premium in Washington, DC; all other data are national averages. Source: 1973—Energy Information Administration, *International Energy Annual*; thereafter, *Monthly Energy Review*. ² Source: PennWell Publishing Co., Tulsa, OK, *Oil and Gas Journal*, weekly. ³ Excludes value-added tax. ⁴ January 1981.⁵ Excludes import duty.Source: Except as noted, U.S. Energy Information Administration; Regular—*International Petroleum Annual*; Premium—*International Energy Annual*.

NO. 1050. 12-YEAR COST OF OWNING AND OPERATING AN AUTOMOBILE, BY SIZE OF CAR: 1984

(For basis of estimates for components of cost, see footnotes, table 1051. Estimates based on vehicle operated in Baltimore, MD area with an assumed life-span of 12 years, 120,000 miles)

ITEM	Total ¹	Taxes and fees	Costs, excl. taxes ²	Depre- ciation	Repairs, main- tenance	Tires	Gasoline	Insur- ance	Park- ing
Total costs (\$1,000):									
Large ³	36.8	2.6	34.2	11.5	6.2	.9	8.2	5.9	1.1
Intermediate ³	33.4	2.2	31.2	10.3	5.4	.6	6.6	6.7	1.1
Compact ⁴	28.0	1.9	26.1	8.8	4.8	.5	5.3	5.2	1.1
Subcompact ⁵	27.2	1.8	25.4	7.0	5.3	.4	5.1	5.9	1.1
Passenger van ⁶	47.1	3.3	43.7	12.7	6.9	.9	10.7	10.6	1.1
Cents per mile cost:									
Large ³	30.6	2.1	28.4	9.6	5.1	.7	6.8	4.9	.9
Intermediate ³	27.8	1.8	26.0	8.6	5.4	.5	5.5	5.8	.9
Compact ⁴	23.3	1.5	21.7	7.3	3.9	.4	4.4	4.3	.9
Subcompact ⁵	22.7	1.4	21.2	5.8	4.4	.4	4.3	4.9	.9
Passenger van ⁶	39.2	2.7	36.4	10.6	5.8	.7	8.9	8.9	.9

¹ Includes accessories and oil. ² Fully equipped 4-door sedan, price \$11,554. ³ 2-door coupe, price \$10,320. ⁴ 4-door sedan, price \$8,799. ⁵ 5-door (hatchback), price \$7,024. ⁶ Passenger van, price \$12,788.Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

NO. 1051. ESTIMATED COST OF OWNING AND OPERATING AN AUTOMOBILE: 1970 TO 1984

[1984 estimates based on an automobile operated from the Baltimore, MD area, costing \$11,554, large car, and \$8,799, compact car, with an assumed life-span of 12 years, 120,000 miles. Prior years based on life-span of 10 years, 100,000 miles. Similar specifications used in other years shown]

ITEM	TOTAL COSTS (\$1,000)				CENTS PER MILE COST, 1984 (January)						
	1970	1976	1981	1984	12-year average	1st year (14,500 miles)	3d year (12,500 miles)	5th year (10,300 miles)	7th year (9,200 miles)	10th year (7,900 miles)	12th year (6,700 miles)
LARGE SIZE 4-DOOR SEDAN											
Total	11.9	17.9	32.0	36.8	30.62	38.46	31.23	38.96	36.28	21.90	19.69
Costs excluding taxes	10.5	16.3	30.2	34.2	28.48	33.01	29.60	37.34	34.37	20.25	18.04
Depreciation	3.2	4.9	9.2	11.5	9.63	19.86	12.36	9.28	7.69	3.97	2.24
Repairs and maintenance ¹	1.5	3.7	6.2	6.2	5.15	.69	3.92	12.87	13.32	2.10	.87
Replacement tires ² .....	.4	.4	.9	.9	.67	.13	.22	.94	.94	.94	.94
Accessories ³	(2)	1	2	2	1.7	10	10	11	23	24	24
Gasoline ⁴	1.7	3.2	8.6	8.2	6.85	6.85	6.85	6.85	6.85	6.85	6.85
Oil ⁵ .....	.2	.2	.2	.2	.13	.06	.13	.19	.12	.18	.08
Insurance ⁶	1.7	1.7	4.0	5.9	4.94	4.38	5.08	6.16	4.28	5.05	5.88
Garaging, parking, etc. ⁷	1.8	2.2	.9	1.1	.94	.94	.94	.94	.94	.94	.94
Taxes and fees ⁸	1.4	1.6	1.8	2.6	2.14	5.45	1.63	1.62	1.91	1.65	1.65
COMPACT CAR											
Total	(NA)	14.6	25.7	28.0	23.31	24.74	21.69	24.92	33.90	19.86	20.55
Costs excluding taxes	(NA)	13.5	24.3	26.1	21.73	20.70	20.57	23.63	32.40	18.71	19.37
Depreciation	(NA)	3.8	7.1	8.8	7.33	11.00	8.04	6.69	5.96	6.32	6.87
Repairs and maintenance ¹	(NA)	3.0	5.2	4.8	3.92	3.1	2.48	5.44	16.26	1.19	.62
Replacement tires ²	(NA)	.4	.6	.5	.43	.09	.08	.55	.54	.32	.32
Accessories ³	(NA)	1	2	2	1.9	12	12	13	.25	.26	.26
Gasoline ⁴	(NA)	2.9	6.1	5.9	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Oil ⁵	(NA)	.2	.2	.2	.13	.06	.13	.19	.11	.15	.08
Insurance ⁶	(NA)	1.6	4.0	5.2	4.31	3.70	4.30	5.21	3.86	4.55	5.30
Garaging, parking, etc. ⁷	(NA)	2.1	.9	1.1	.94	.94	.94	.94	.94	.94	.94
Taxes and fees ⁸	(NA)	1.1	1.4	1.9	1.58	4.04	1.12	1.29	1.50	1.15	1.18

NA Not available. Z Less than \$50. ¹ For 1984, includes lubrications, repacking wheel bearings, flushing cooling system, aiming headlamps; replacement of minor parts such as spark plugs, fan belts, radiator hoses, fuel filter, and pollution control equipment; minor repairs such as brake jobs, water pump, carburetor overhaul, and universal joints; and major repairs such as a complete "valve job." ² For 1984, covers 8 new regular tires and 2 new snow tires during life of car. ³ For 1984, includes a set of vinyl floor mats, seat covers, and a pair of extra wheels. ⁴ For 1984, gasoline use set at 17 miles per gallon for large size sedan and 26 miles per gallon for compact car; associated oil use at 1 quart oil every 2,500 miles driven between 50,000 and 75,000 miles and 1 quart every 2,000 miles driven between 75,000 and 120,000 miles. ⁵ For 1984, includes \$20,000/\$40,000 bodily injury, and \$10,000 property damage, \$2,500 personal injury protection, uninsured motorist coverage, and full comprehensive coverage for the 12-year period; \$100 deductible collision insurance was assumed for the first 5 years. ⁶ For 1984, includes parking fee average of \$65.20 per year and toll average of \$8.85 per year. Beginning 1981, excludes cost of home garage or parking facility which was included in prior years. ⁷ For 1984, Federal tax on gasoline of 9 cents per gallon; plus the Maryland tax on gasoline of 13.5 cents per gallon, titling tax of 5 percent of retail price, and registration fee of \$20.00 for 3,700 lb. or less shipping weight, or \$30.00 for vehicles over 3,700 lb. State sales tax of 5 percent included on certain items.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

NO. 1052. HOUSEHOLD MOTOR VEHICLE TRANSPORTATION, BY VEHICLE MODEL YEAR: 1983

[Preliminary data. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTICS	VEHICLES (millions)				MILES PER GALLON			
	Total	Model year			Average	Model year		
		1973 and earlier	1974 to 1978	1979 and later		1973 and earlier	1974 to 1978	1979 and later
Total	129.3	35.2	48.4	44.8	15.1	12.7	13.7	18.6
Northeast	23.9	5.3	9.1	9.3	15.6	12.9	13.7	19.1
Midwest	32.5	7.8	13.1	11.6	14.8	12.1	13.3	18.4
South	45.1	12.1	17.1	15.5	15.0	12.7	13.7	18.2
West	27.7	10.0	9.1	8.5	15.4	12.9	14.5	19.0
In metropolitan areas	96.3	25.7	35.9	34.2	15.3	12.5	13.9	18.7
Outside metropolitan areas	32.9	9.5	12.5	10.6	14.8	13.1	13.1	18.2
Family income:								
Less than \$5,000	4.1	2.0	1.3	.8	14.2	12.1	14.7	18.6
\$5,000-\$9,999	14.4	5.5	5.5	3.1	13.9	12.2	13.5	17.4
\$10,000-\$14,999	16.1	5.5	6.2	4.3	14.7	12.6	13.8	18.9
\$15,000-\$19,999	18.4	5.1	6.8	4.4	14.0	11.9	13.0	18.4
\$20,000-\$24,999	15.4	4.0	5.7	5.7	15.3	13.1	13.7	18.5
\$25,000-\$34,999	29.3	6.8	10.9	10.7	15.6	13.1	13.8	18.8
\$35,000 or more	34.6	6.5	12.0	15.9	16.1	13.2	14.0	18.7

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles*, 1983.

NO. 1053. HOUSEHOLD MOTOR VEHICLE FUEL CONSUMPTION AND EXPENDITURES, BY HOUSEHOLD CHARACTERISTICS: 1983

[Excludes Alaska and Hawaii. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTICS	Households with motor vehicles ¹ (mil.)	VEHICLES		MILES DRIVEN		MOTOR FUEL EXPENDITURES	
		Number (mil.)	Number per household	Total (bil.)	Number per household	Total (bil. dol.)	Average per household
Total	72.2	129.3	1.8	1,215	16,630	95.1	\$1,317
Northeast.....	13.9	23.9	1.7	227	16,324	17.5	1,254
Midwest.....	18.3	32.5	1.8	298	16,299	24.0	1,314
South.....	24.7	45.1	1.8	436	17,689	34.2	1,385
West.....	15.3	27.7	1.8	254	16,541	19.5	1,269
In metropolitan areas.....	54.2	96.3	1.8	909	16,768	70.4	1,299
Outside metropolitan areas.....	18.0	32.9	1.8	306	17,018	24.7	1,374
Family income:							
Less than \$5,000.....	3.2	4.1	1.3	33	10,280	2.7	852
\$5,000-\$9,999.....	9.8	14.4	1.5	118	11,975	10.0	1,020
\$10,000-\$14,999.....	10.5	16.1	1.5	144	13,682	11.6	1,104
\$15,000-\$19,999.....	9.7	16.4	1.7	147	15,226	12.4	1,277
\$20,000-\$24,999.....	8.7	15.4	1.8	144	16,645	11.2	1,287
\$25,000-\$34,999.....	14.7	28.3	1.9	282	19,252	21.4	1,461
\$35,000 or more.....	15.6	34.6	2.2	347	22,167	25.8	1,650

¹ As of July 1983.

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey, Consumption Patterns of Household Vehicles*, 1983.

NO. 1054. PRINCIPAL MEANS OF TRANSPORTATION TO WORK—SELECTED METROPOLITAN AREAS: 1980

[Workers 16 years old and over. Covers SMSA's with population of 1 million or more]

METROPOLITAN AREA	Work- ers (1,000)	PERCENT USING—				METROPOLITAN AREA	Work- ers (1,000)	PERCENT USING—			
		Car, truck, or van		Public trans- porta- tion ¹	Other means ²			Car, truck, or van		Public trans- porta- tion ¹	Other means ²
		Drive alone	Car- pool					Drive alone	Car- pool		
Anaheim-Santa Ana-Garden Grove, CA	962	74.8	16.1	2.1	7.0	Minneapolis-St. Paul, MN-WI	1,046	63.1	19.9	8.7	8.3
Atlanta, GA	948	68.7	19.6	7.6	4.1	Nassau-Suffolk, NY	1,140	63.7	17.6	12.5	6.2
Baltimore, MD	967	59.8	22.3	10.3	7.7	New Orleans, LA	485	61.7	20.6	10.9	6.8
Boston, MA	1,308	56.0	17.0	15.7	11.3	New York, NY-NJ	3,792	30.7	11.6	45.1	12.6
Buffalo, NY	500	66.6	18.6	6.6	8.2	Newark, NJ	879	64.0	17.9	10.7	7.4
Chicago, IL	3,163	57.6	16.7	18.0	7.7	Philadelphia, PA- NJ	1,959	59.1	17.8	14.0	9.2
Cincinnati, OH-KY- IN	588	68.8	18.8	6.5	5.8	Phoenix, AZ	659	70.2	18.0	2.0	8.9
Cleveland, OH	820	67.9	18.0	10.6	5.5	Pittsburgh, PA	912	60.7	19.4	11.5	8.4
Columbus, OH	488	70.3	18.2	4.6	6.8	Portland, OR-WA	568	65.3	18.0	8.4	6.2
Dallas-Fort Worth, TX	1,465	71.2	20.6	3.4	4.8	Riverside-San Bernardino- Ontario, CA	614	71.9	18.3	0.9	8.9
Denver-Boulder, CO	809	65.4	20.2	6.1	8.3	Sacramento, CA	435	69.0	17.6	3.5	9.9
Detroit, MI	1,710	75.1	16.9	3.7	4.3	St. Louis, MO-IL	1,004	67.3	21.4	5.7	5.6
Fort Lauderdale- Hollywood, FL	424	73.7	18.1	2.0	6.2	San Antonio, TX	450	66.9	19.9	4.6	8.6
Houston, TX	1,415	69.5	22.4	3.0	5.0	San Diego, CA	855	63.8	17.4	3.3	15.5
Indianapolis, IN	523	70.3	21.0	3.2	5.5	San Francisco- Oakland, CA	1,582	57.9	15.7	16.4	9.9
Kansas City, MO- KS	618	69.3	21.5	4.1	5.1	San Jose, CA	650	72.5	16.6	3.1	7.9
Los Angeles-Long Beach, CA	3,374	68.7	16.8	7.0	7.5	Seattle-Everett, WA	776	63.9	18.2	9.6	8.3
Miami, FL	726	67.4	18.6	6.6	6.4	Tampa-St. Petersburg, FL	606	72.0	18.4	1.8	7.8
Milwaukee, WI	642	65.0	19.0	7.7	8.3	Washington, DC- MD-VA	1,553	53.7	22.9	15.5	7.9

¹ Includes bus or streetcar, subway or elevated train, railroad, and taxicab.

² Includes motorcycle, bicycle, walked only, worked at home, and all other modes not specified.

Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapter C (PC80-1-C).

NO. 1055. PLACES OF WORK AND RESIDENCE AND PUBLIC TRANSPORTATION USE, FOR SELECTED

CITIES: 1980

[Cities ranked by size of population enumerated as of April 1. Workers 16 years old and over]

CITY	WORKERS LIVING IN CITY				WORKERS WORKING IN CITY		PERCENT COMMUTING		Net worker movement ¹ (1,000)	Worker/resident ratio ⁵
	Total (1,000)	Place of work reported			Total (1,000)	Living outside city (1,000)	Out of city ²	Into city ³		
		Inside city (1,000)	Out-side city (1,000)	Percent using public transp. ⁴						
New York, NY.....	2,500	2,344	156	55.8	2,976	632	6.22	21.24	476	1.191
Chicago, IL.....	1,050	850	200	32.4	1,273	422	19.02	33.19	223	1.212
Los Angeles, CA.....	1,221	875	346	10.8	1,416	541	28.37	38.22	195	1.159
Philadelphia, PA.....	553	474	79	30.2	698	224	14.35	32.13	145	1.262
Houston, TX.....	710	632	78	4.8	930	298	10.96	32.01	220	1.309
Detroit, MI.....	330	214	116	11.8	425	211	35.20	49.59	94	1.285
Dallas, TX.....	409	337	72	8.3	602	265	17.64	44.02	193	1.471
San Diego, CA.....	387	307	80	4.3	449	142	20.72	31.62	62	1.159
Phoenix, AZ.....	326	269	57	2.7	362	93	17.49	25.68	36	1.110
Baltimore, MD.....	259	197	62	25.4	388	191	24.05	49.22	129	1.496
San Antonio, TX.....	292	267	25	6.0	350	83	8.55	23.82	59	1.201
Indianapolis, IN.....	293	261	32	5.0	366	104	10.86	28.46	72	1.246
San Francisco, CA.....	295	252	43	38.5	459	206	14.43	44.98	164	1.555
Memphis, TN.....	238	221	17	6.4	285	64	7.17	22.57	47	1.189
Washington, DC.....	254	206	49	30.0	594	388	18.13	65.36	340	2.334
Milwaukee, WI.....	253	184	69	14.3	307	122	27.11	39.85	54	1.212
San Jose, CA.....	269	129	141	3.3	201	72	52.27	35.96	-69	.745
Cleveland, OH.....	186	130	55	19.5	342	212	29.72	61.87	156	1.643
Columbus, OH.....	232	187	45	7.3	303	118	19.26	38.30	72	1.309
Boston, MA.....	221	165	56	33.7	421	256	25.17	60.81	201	1.909
New Orleans, LA.....	189	156	33	21.0	244	88	17.27	35.94	55	1.291
Jacksonville, FL.....	217	201	16	5.4	234	33	7.48	14.20	17	1.078
Seattle, WA.....	229	192	37	19.3	359	188	18.28	46.68	131	1.570
Denver, CO.....	221	165	55	10.2	363	197	25.08	54.41	142	1.643
Nashville-Davidson, TN.....	193	171	22	5.4	232	81	11.60	26.35	39	1.200
St. Louis, MO.....	150	113	37	18.6	315	201	24.43	63.97	165	2.097
Kansas City, MO.....	189	141	47	9.4	280	139	25.13	49.58	92	1.485
El Paso, TX.....	149	140	9	4.2	158	18	6.26	11.57	9	1.060
Atlanta, GA.....	151	111	40	24.5	336	226	26.69	67.11	185	2.229
Pittsburgh, PA.....	156	122	33	28.3	310	187	21.33	60.50	154	1.992
Oklahoma City, OK.....	171	153	18	1.8	253	100	10.40	39.58	82	1.483
Cincinnati, OH.....	141	105	36	15.0	258	153	25.74	59.33	117	1.826
Fort Worth, TX.....	163	124	39	3.6	211	86	23.65	40.98	48	1.294
Minneapolis, MN.....	171	110	60	21.8	257	146	35.37	57.03	86	1.504
Portland, OR.....	153	125	28	15.9	274	148	18.06	54.23	121	1.790
Honolulu, HI.....	169	153	16	13.5	230	77	9.23	33.49	62	1.355
Long Beach, CA.....	146	68	78	6.2	146	79	53.64	53.75	-	1.002
Tulsa, OK.....	162	146	16	3.2	209	63	9.95	30.10	47	1.288
Buffalo, NY.....	117	87	30	17.0	188	101	25.98	53.76	70	1.501
Toledo, OH.....	128	106	22	5.0	159	53	17.43	33.53	31	1.242
Miami, FL.....	134	88	46	13.8	314	226	34.44	72.08	180	2.348
Austin, TX.....	160	150	10	4.4	200	51	6.14	25.21	41	1.255
Oakland, CA.....	124	65	59	21.6	166	101	47.26	60.84	42	1.340
Albuquerque, NM.....	137	123	14	3.0	158	35	9.95	22.15	21	1.157
Tucson, AZ.....	133	109	24	3.9	157	48	17.87	30.64	24	1.184
Newark, NJ.....	87	45	42	26.4	146	101	47.89	68.99	59	1.681
Charlotte, NC.....	138	122	16	6.0	162	70	11.89	38.35	54	1.368
Omaha, NE.....	135	122	13	7.2	189	67	9.68	35.31	54	1.396
Louisville, KY.....	108	81	27	10.6	205	124	25.19	60.84	97	1.900
Birmingham, AL.....	103	78	25	6.7	180	102	24.12	56.79	78	1.756
Wichita, KS.....	127	105	21	2.6	139	33	16.80	24.11	12	1.096
Sacramento, CA.....	99	75	24	5.3	190	115	24.47	60.66	91	1.920
Tampa, FL.....	103	84	19	3.2	185	100	18.05	54.36	82	1.796
St. Paul, MN.....	116	79	37	15.0	183	104	32.19	58.98	67	1.576
Norfolk, VA.....	113	73	40	8.0	147	74	34.99	50.01	34	1.300
Virginia Beach, VA.....	119	60	58	1.7	78	17	49.08	21.97	-41	.653
Rochester, NY.....	91	70	22	14.6	195	125	23.68	64.28	104	2.137
St. Petersburg, FL.....	85	58	27	3.7	86	29	32.04	33.14	1	1.016
Akron, OH.....	85	60	25	4.6	118	58	29.11	48.94	33	1.388
Corpus Christi, TX.....	88	80	8	1.4	93	12	9.15	13.44	4	1.050
Jersey City, NJ.....	76	37	39	34.1	72	34	51.25	48.13	-5	.940
Baton Rouge, LA.....	84	68	17	2.2	120	52	19.74	43.63	36	1.424
Anaheim, CA.....	102	37	65	2.2	117	80	63.87	68.57	15	1.150
Richmond, VA.....	89	71	18	17.0	179	108	19.85	60.36	91	2.022

- Represents zero. ¹ Includes workers using bus or streetcar, subway or elevated train, railroad, or taxicab. ² Percent of workers living in the city with place of work reported who commute to a place of work outside the city. ³ Percent of workers working in the city who commute in from a residence outside the city. ⁴ Minus sign (-) indicates an outflow of workers.

⁵ Number of persons reported as working in the city divided by the number of workers residing in the city whose place of work was reported.

Source: U.S. Bureau of the Census, 1980 Census of Population, vol. 1, chapter C (PC80-1-C), and unpublished data.

NO. 1056. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1960 TO 1982

[Beginning 1970, includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) light rail lines, (c) heavy rail lines, and (d) trolley coach lines. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970, series Q 238-250*]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982, prel.
Operating systems	Number	1,251	1,148	1,079	947	1,018	1,027	1,044	1,035	1,034
Motorbus systems ¹	Number.....	1,236	1,145	1,075	941	1,014	1,023	1,040	1,030	1,029
Publicly owned systems ¹	Number.....	54	78	144	333	463	523	576	578	581
Passenger vehicles owned	Number	65,292	61,717	61,350	62,226	64,013	65,739	70,983	72,063	73,803
Motorbuses.....	Number.....	49,600	49,800	49,700	50,811	52,666	54,490	59,411	60,393	62,114
Electric railway cars ^{2,3}	Number.....	11,868	10,664	10,600	10,712	10,554	10,524	10,749	10,919	10,926
Heavy rail.....	Number.....	9,010	9,115	9,336	9,608	9,587	9,522	9,693	9,801	9,867
Trolley coaches.....	Number.....	3,826	1,453	1,050	703	593	725	823	751	763
Total revenue	Mil. dol.	(NA)	(NA)	(NA)	3,451	4,682	5,558	6,510	7,366	8,044
Operating revenue.....	Mil. dol.....	1,407	1,444	1,707	2,002	2,381	2,524	2,863	2,784	3,152
Nonoperating revenue ⁴	Mil. dol.....	(NA)	(NA)	(NA)	41	89	124	142	261	305
Operating assistance.....	Mil. dol.....	(NA)	(NA)	(NA)	1,408	2,232	2,910	3,705	4,321	4,587
Federal.....	Mil. dol.....	(NA)	(NA)	(NA)	302	690	856	1,094	1,095	1,005
State and local.....	Mil. dol.....	(NA)	(NA)	(NA)	1,106	1,542	2,055	2,611	3,226	3,582
Total expense	Mil. dol.	1,377	1,454	1,996	3,752	4,789	5,511	6,711	7,623	8,324
Operating expense.....	Mil. dol.....	(NA)	(NA)	(NA)	3,537	4,539	5,232	6,246	7,024	7,563
Transportation.....	Mil. dol.....	(NA)	(NA)	(NA)	1,877	2,508	2,735	3,248	3,596	3,887
Maintenance.....	Mil. dol.....	(NA)	(NA)	(NA)	814	1,089	1,469	1,774	1,946	2,171
Administration.....	Mil. dol.....	(NA)	(NA)	(NA)	846	952	1,028	1,224	1,482	1,505
Reconciling expense.....	Mil. dol.....	(NA)	(NA)	(NA)	215	250	380	464	597	761
Vehicle-miles operated ⁵	Million	2,143	2,008	1,883	1,990	2,028	2,045	2,095	2,137	2,132
Motorbus.....	Million.....	1,576	1,528	1,409	1,526	1,630	1,634	1,677	1,685	1,569
Electric railway ^{2,3}	Million.....	466	437	441	448	384	400	405	440	450
Heavy rail.....	Million.....	391	395	407	423	364	380	385	420	429
Passengers carried ^{5,6}	Million	9,395	8,253	7,332	6,972	7,944	8,543	8,671	8,409	8,085
Motorbus ⁶	Million.....	6,425	5,814	5,034	5,084	5,632	6,081	6,277	6,025	5,705
Electric railway ^{3,6}	Million.....	2,313	2,134	2,116	1,810	2,248	2,340	2,266	2,256	2,233
Revenue passengers carried	Million	7,521	6,798	5,932	5,643	5,963	6,370	6,447	6,278	6,038
Motorbus.....	Million.....	5,069	4,730	4,058	4,095	4,406	4,746	4,871	4,656	4,417
Electric railway ^{2,3}	Million.....	2,005	1,882	1,746	1,493	1,506	1,569	1,504	1,543	1,528
Heavy rail.....	Million.....	1,670	1,878	1,574	1,388	1,415	1,474	1,410	1,444	1,433
Trolley coach.....	Million.....	447	186	128	56	51	55	72	79	93
Average fares	Cents	17.8	19.7	27.6	33.0	38.1	38.2	39.7	43.0	51.0
Employees, number (avg.) ⁷	1,000	156	145	138	160	165	179	189	194	197
Payroll, employee.....	Mil. dol.....	857	964	1,274	2,236	2,741	3,025	3,280	3,494	3,736

NA Not available. ¹ Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. ² Includes light rail. ³ Beginning 1975, includes cable car and inclined plane.

⁴ Includes auxiliary income. ⁵ Includes trolley coach, not shown separately. ⁶ Data for 1960-1975 not comparable with later years. ⁷ Beginning 1979, includes part-time employees counted individually.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual.

NO. 1057. FEDERAL GRANT APPROVALS FOR MASS TRANSPORTATION: 1970 TO 1982

[In millions of dollars. For years ending June 30 through 1976 except, beginning 1977, ending Sept. 30. Excludes direct Congressional authorizations to States or localities (major example is Washington, DC's Metro System). Mass transportation is defined as transportation by bus, or rail or other conveyance, either publicly or privately owned which provides to the public general or special service (excluding school buses, charter and sightseeing service) on a regular and continuing basis]

TYPE OF GRANT	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total grant approvals	133	864	956	1,430	1,843	2,296	2,722	2,970	3,908	4,076	3,600
Capital grant approvals	133	864	956	1,287	1,479	1,724	2,037	2,102	2,787	2,946	2,544
Section 3 ¹	133	864	870	1,197	1,092	1,250	1,400	1,225	1,655	1,925	1,635
Section 5 ¹	(X)	(X)	(X)	9	26	39	50	256	431	361	298
Interstate and urban system ²	(X)	(X)	86	81	361	434	587	621	701	680	612
Operating grant approvals, Section 5 ¹	(X)	(X)	(X)	143	364	572	685	868	1,121	1,130	1,056

X Not applicable. ¹ Grants allowed under Urban Mass Transportation Act of 1964 as amended. Section 3 grants are discretionary grants awarded upon application by local authorities. Section 5 grants are formula grants awarded to cities meeting certain criteria. ² Grants under Federal Highway Act of 1973.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual. Data from U.S. Urban Mass Transportation Administration.

NO. 1058. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 TO 1982

[See headnote, table 1059. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (—) indicates loss]

ITEM	Unit	1975	1980	1981	1982	1975	1980	1981	1982
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting.....	Number.....	368	298	261	274	330	441	403	554
Number of employees, average.....	1,000.....	379	413	392	361	94	101	92	98
Compensation of employees.....	Mill. dol.....	5,728	9,003	10,226	9,649	1,046	1,931	1,917	2,081
Operating revenues.....	Mill. dol.....	11,116	19,725	20,692	19,489	3,907	8,792	8,870	9,242
Intercity freight.....	Mill. dol.....	10,511	19,480	20,452	19,284	3,717	8,339	8,491	8,507
Operating expenses.....	Mill. dol.....	10,571	18,870	19,821	18,687	3,758	8,426	8,535	9,044
Ordinary income before taxes.....	Mill. dol.....	432	701	760	536	109	230	238	84
Net income.....	Mill. dol.....	225	-72	588	264	65	14	200	50
Total power units, intercity service.....	1,000.....	78	102	97	105	69	95	93	50
Trucks, tractors owned in operation, avg.....	1,000.....	49	73	68	76	25	33	31	33
Intercity vehicle-miles.....	Million.....	6,246	6,547	6,230	5,528	4,776	6,869	6,680	7,034
Tons of intercity revenue freight carried.....	Million.....	191	178	162	137	264	324	308	317
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting.....	Number.....	50	69	50	90	32	28	27	40
Number of employees, average.....	1,000.....	10	14	11	17	4	10	7	9
Compensation of employees.....	Mill. dol.....	175	336	299	445	70	167	114	162
Operating revenues.....	Mill. dol.....	453	1,272	1,037	1,548	866	1,824	1,903	1,975
Intercity freight.....	Mill. dol.....	411	1,172	964	1,407	765	1,676	1,784	1,815
Operating expenses.....	Mill. dol.....	432	1,207	999	1,488	849	1,781	1,857	1,938
Ordinary income before taxes.....	Mill. dol.....	17	48	29	47	32	74	76	70
Net income.....	Mill. dol.....	9	28	21	31	18	42	52	47
Total power units, intercity service.....	1,000.....	8	13	11	15	18	25	27	27
Trucks, tractors owned in operation, avg.....	1,000.....	5	7	6	8	(2)	1	1	1
Intercity vehicle-miles.....	Million.....	454	934	705	1,069	688	969	939	948
Tons of intercity revenue freight carried.....	Million.....	21	37	27	34	3	5	5	6

Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual.

NO. 1059. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1970 TO 1982

[Carriers subject to ICC regulations. See text, p. 586. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Carriers reporting ¹	Number.....	71	81	77	78	42	43	45	48	45	50
Number of employees, average.....	1,000.....	34	36	31	32	27	26	27	31	31	30
Compensation of employees.....	Mill. dol.....	317	415	368	446	403	412	459	599	690	646
Operating revenue.....	Mill. dol.....	722	933	942	975	965	* 1,021	1,200	1,397	1,453	1,447
Passenger revenue ²	Mill. dol.....	524	662	651	645	655	671	802	947	993	969
Special bus revenue and other.....	Mill. dol.....	198	271	291	(NA)	314	345	398	215	202	229
Expenses.....	Mill. dol.....	639	859	880	937	924	983	1,143	1,318	1,381	1,416
Net operating revenue.....	Mill. dol.....	83	74	61	37	45	38	57	79	72	30
Ordinary income:											
Before income taxes.....	Mill. dol.....	88	93	83	49	58	57	57	107	88	35
After income taxes.....	Mill. dol.....	52	61	56	32	40	41	57	90	61	37
Passenger vehicles in service ³	1,000.....	13.3	13.8	9.7	(NA)	8.3	8.5	8.2	8.6	8.4	8.1
Vehicle-miles, passenger.....	Million.....	871	886	835	(NA)	754	726	754	781	732	717
Revenue passenger-miles.....	Million.....	174	169	147	(NA)	122	118	122	134	114	112
Expense per vehicle-mile.....	Dollar.....	.73	.97	1.05	(NA)	1.23	1.35	1.52	1.69	1.89	1.98

NA Not available. ¹ Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. ² Includes \$4 million from Government authorities for current operations. ³ Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, 1970, *Transport Statistics in the United States*, Part 7, and 1974-1982, Part 2, annual; except 1976, *Financial and Operating Statistics, Class I Motor Carriers of Passengers*, statement No. 750, semiannual. (Discontinued in 1979.)

NO. 1060. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1970 TO 1983

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Operating companies.....	Number.....	1,000	950	1,000	1,050	1,100	1,200	1,330	1,420	1,520	2,600
Buses.....	1,000.....	22.0	20.5	20.1	20.1	20.4	21.3	21.4	21.2	21.1	23.0
Miles of highway served (Dec. 31) ¹	1,000.....	267	274	278	276	278	280	279	273	270	265
Employees (Dec. 31) ²	1,000.....	50	47	46	46	46	48	49	49	49	60
Bus miles, total.....	1,209	1,126	1,116	1,116	1,100	1,159	1,162	1,136	1,120	1,130	
Revenue passenger-miles.....	Million.....	401	351	340	329	336	368	365	375	370	365
Revenue passenger-miles.....	Billion.....	25.3	25.4	25.1	26.0	25.6	27.7	27.4	27.1	26.9	26.5
Operating revenue, all services.....	Mill. dol.....	901	1,172	1,232	1,331	1,419	1,684	1,943	2,075	2,072	2,100
Operating expenses.....	Mill. dol.....	812	1,103	1,180	1,276	1,366	1,572	1,811	1,963	2,015	2,065
Net operating revenue ³	Mill. dol.....	89	69	52	55	53	92	132	112	57	35

¹ Includes duplication between carriers. ² Operating companies only. ³ Before income taxes.

Source: American Bus Association, Washington, DC, *Bus Facts*, annual, and *Annual Report*.

No. 1061. RAILROADS, CLASS I—SUMMARY STATISTICS: 1960 TO 1983

[As of Dec. 31, or calendar year date, except as noted. Compiled from annual reports of class I railroads only, except where noted. Minus sign (—) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 330, Q 356-363, and Q 367-377]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
Class I line-hauling companies ¹	Number...	106	76	71	73	41	41	39	38	33	31
Employees ²	1,000.....	780	640	566	494	491	503	460	457	397	^a 348
Compensation.....	Mill. dol.	4,894	4,793	5,711	7,475	9,701	10,904	11,318	11,850	11,021	^a 10,345
Average per hour.....	Dollars	2.72	3.06	4.14	6.39	8.43	9.22	10.21	11.14	12.26	(NA)
Average per year.....	Dollars	6,444	7,490	10,086	15,324	20,573	22,585	24,659	26,698	29,087	(NA)
Mileage:											
Railroad line owned ⁴	1,000.....	218	212	206	199	191	185	179	168	165	(NA)
Railroad track owned ⁵	1,000.....	359	345	336	324	310	300	290	278	275	(NA)
Equipment:											
Locomotives in service.....	1,000.....	29,080	27,816	27,086	28,210	27,400	26,097	28,396	27,808	27,073	^a 26,220
Average horsepower.....	1,000 lb.....	(NA)	(NA)	1,926	2,121	2,140	2,188	2,302	2,326	2,341	(NA)
Cars in service:											
Passenger-train.....	Number.....	28,305	21,327	11,177	6,471	4,493	4,241	4,947	3,945	3,736	(NA)
Freight train.....	1,000.....	1,985	1,801	1,784	1,724	1,553	1,700	1,711	1,673	1,588	1,543
Freight cars.....	1,000.....	1,690	1,515	1,454	1,359	1,227	1,217	1,168	1,111	1,039	1,007
Average capacity ⁷	Tons	55.4	59.7	67.1	72.9	76.9	77.7	78.5	80.5	81.6	^a 82.4
Aggregate capacity.....	Mill. tons	91.9	88.3	95.6	99.2	94.4	94.6	92.7	89.4	84.8	^a 83.0
Box.....	1,000.....	700	593	590	475	384	380	347	314	278	271
Gondola and hopper.....	1,000.....	831	754	724	680	647	645	636	621	594	577
Other.....	1,000.....	159	168	140	204	196	192	185	176	167	159
Income and expenses:											
Operating revenues.....	Mill. dol.	9,514	10,208	11,992	16,402	21,721	25,219	28,103	30,899	27,504	^a 26,726
Operating expenses.....	Mill. dol.	7,565	7,850	11,478	15,936	21,043	23,994	26,250	26,587	26,490	^a 24,955
Tax accruals.....	Mill. dol.	999	917	1,069	1,706	2,142	2,412	2,578	3,330	2,508	(NA)
Interest on funded debt.....	Mill. dol.	313	332	497	623	739	789	933	1,056	1,019	^a 953
Net income.....	Mill. dol.	445	815	227	144	307	938	1,192	2,041	1,152	^a 1,217
Net railway operating income.....	Mill. dol.	584	862	466	351	427	837	1,312	1,361	742	^a 1,296
Rate of return on average net investment.....	Percent.....	2.13	3.69	1.73	1.20	1.52	2.87	4.13	3.96	2.11	^a 3.72
Balance sheet:											
Total property investment.....	Mill. dol.	31,802	31,532	38,213	40,344	38,935	40,498	43,923	46,619	47,311	(NA)
Accrued depreciation and amortization.....	Mill. dol.	8,465	7,711	10,027	10,605	10,141	10,227	10,706	11,622	12,051	(NA)
Net investment.....	Mill. dol.	23,336	23,821	28,186	29,740	28,794	30,271	33,217	34,997	35,260	^a 34,856
Shareholder's equity.....	Mill. dol.	17,313	17,747	17,323	14,942	16,175	17,796	19,660	21,253	21,349	^a 21,228
Net working capital.....	Mill. dol.	878	827	—59	66	603	555	697	1,692	1,372	^a 1,312
Cash dividends.....	Mill. dol.	385	471	421	434	503	563	610	662	^a 1,038	(NA)
Passenger service:											
Passengers carried.....	Million.....	326	299	284	269	281	295	300	(NA)	(NA)	(NA)
Passenger-miles.....	Million.....	21,258	17,388	10,771	9,942	10,222	11,200	10,995	(NA)	(NA)	(NA)
Commutation.....	Million.....	4,187	4,120	4,592	4,513	4,666	4,835	5,070	(NA)	(NA)	(NA)
Coach.....	Million.....	13,422	11,069	5,414	4,927	5,088	5,876	5,504	(NA)	(NA)	(NA)
Parlor and sleeping car.....	Million.....	3,643	2,191	765	502	467	489	421	(NA)	(NA)	(NA)
Passenger revenue.....	Mill. dol.	640	553	420	536	608	702	807	(NA)	(NA)	(NA)
Revenue per passenger-mile.....	Cents.....	3.011	3.162	3.914	5.396	5.947	6.270	7.336	(NA)	(NA)	(NA)
Average journey per passenger.....	Miles.....	65	57	38	37	36	38	37	(NA)	(NA)	(NA)
Freight service:											
Freight revenue.....	Mill. dol.	8,025	8,836	10,922	15,390	20,236	23,447	26,200	28,925	25,627	25,829
Revenue-tons originated.....	Million.....	1,241	1,387	1,485	1,395	1,390	1,502	1,492	1,453	1,269	1,263
Tons carried one mile.....	Billion.....	572	698	765	754	858	914	919	910	798	826
Revenue ton-miles per mile of road.....	1,000.....	2,609	3,290	3,652	3,666	4,471	4,979	5,133	5,142	4,802	(NA)
Revenue per ton-mile.....	Cents.....	1.403	1.266	1.428	2.041	2.358	2.599	2.852	3.178	3.212	^a 3.124
Haul per ton, U.S. as a system.....	Miles.....	442	477	490	516	572	580	590	600	604	(NA)
Accidents:⁸											
Persons killed.....	Number.....	2,248	2,399	2,255	1,660	1,648	1,429	1,417	1,284	1,119	1,073
Persons injured.....	Number.....	19,577	25,789	21,327	54,306	72,545	74,126	62,246	53,003	40,275	34,819

NA Not available. ¹ See text, p. 586 for definitions of class I and class II. ² Average mid-month count. ³ Preliminary.

⁴ Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines.
⁵ Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal companies.
⁶ Includes cars owned by all railroads, private car companies, and shippers. ⁷ Class I railroads only. ⁸ Includes highway grade crossing casualties. Beginning 1975, not comparable with previous years due to change in requirements for reporting injuries.

Source: Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts, and Statistics of Railroads of Class I*, annual. Accident data: 1960 and 1965, U.S. Interstate Commerce Commission, *Accident Bulletin*, beginning 1970, U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

No. 1062. RAILROADS, CLASS I LINE-HAUL—FINANCIAL SUMMARY: 1970 TO 1983

[In millions of dollars, except percent. Minus sign (–) indicates deficit. Data prior to 1978 have been restated to conform with revised Uniform System of Accounts. See also *Historical Statistics, Colonial Times to 1970*, series Q 364–366 and Q 378]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983, prel.
Operating revenues.....	11,992	16,402	18,536	20,090	21,721	25,219	28,103	30,899	27,504	26,728
Freight.....	11,106	15,390	17,400	18,892	20,236	23,447	26,200	28,925	25,827	25,829
Passenger.....	420	297	327	337	356	382	438	534	573	112
Other.....	466	715	809	861	1,130	1,390	1,464	1,439	1,303	784
Operating expenses.....	11,478	15,936	17,881	19,534	21,043	23,994	26,250	28,587	26,490	24,985
Net revenue from railway operations.....	514	466	655	557	678	1,225	1,853	2,312	1,013	1,741
Total income.....	994	1,094	1,358	1,353	1,823	2,397	3,167	4,425	2,680	2,950
Income taxes on ordinary income ¹	88	58	163	80	183	199	291	45	58	47
Net income (ordinary).....	227	144	355	326	307	938	1,192	2,041	1,152	1,217
Net railway operating income.....	486	351	452	343	427	837	1,312	1,961	742	1,296
Rate of return (percent).....	1.73	1.20	1.60	1.24	1.52	2.87	4.13	3.98	2.11	3.72
Shareowners' equity.....	17,323	14,942	15,290	15,727	18,175	17,795	19,860	21,253	21,349	21,228
Net working capital.....	–59	66	343	571	603	555	887	1,692	1,312	1,312
Cash dividends.....	421	434	444	497	503	563	810	682	1,036	(NA)
Gross capital expenditures.....	1,351	1,790	1,725	2,290	2,738	3,324	3,621	2,750	1,975	1,806
Equipment.....	993	1,303	1,175	1,540	1,883	2,285	2,346	1,502	713	451
Roadway and structures.....	358	486	550	751	855	1,039	1,275	1,248	1,262	1,356

NA Not available. ¹Includes State income taxes beginning 1978. ²Represents credit. ³Current assets minus current liabilities, including debt due within one year.

Source: Association of American Railroads, Washington, DC, *Statistics of Railroads of Class I*, annual, and *Yearbook of Railroad Facts*.

No. 1063. RAILROADS, CLASS I LINE-HAUL—SELECTED FREIGHT STATISTICS: 1970 TO 1983

[Excludes switching and terminal roads. See text, p. 586, for definition of class I. See *Historical Statistics, Colonial Times to 1970*, series Q 319, for train-miles per train-hour]

ITEM	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Average miles of road operated.....	1,000	209	206	205	198	197	192	183	179	177	174	(NA)
Freight revenue.....	Bill. dol.	10.9	15.8	15.4	17.4	18.9	20.3	23.6	26.2	28.9	26.6	25.8
Per ton-mile.....	Cents	1.43	1.85	2.04	2.20	2.29	2.37	2.59	2.83	3.18	3.21	3.12
Per ton originated.....	Dollar	7.67	10.70	11.40	12.75	13.90	14.95	16.17	18.05	20.36	20.89	20.66
Revenue freight:												
Tons originated.....	Million	1,485	1,530	1,395	1,370	1,395	1,390	1,502	1,492	1,453	1,269	1,293
Tons carried.....	Million	2,516	2,716	2,437	2,448	2,439	2,217	2,463	2,434	2,377	1,979	1,932
Revenue ton-miles.....	Million	765	851	754	794	826	858	914	919	910	798	827
Average haul.....	Miles	292	311	309	324	339	371	366	377	381	403	(NA)
Train miles.....	Million	427	469	402	425	428	433	438	428	408	345	(NA)
Freight car miles, loaded ¹	Billion	17.3	17.6	15.1	15.6	16.3	15.9	15.8	14.7	13.8	11.7	(NA)
Empty.....	Billion	12.6	13.1	12.5	12.7	12.4	11.1	11.5	12.0	11.2	9.2	(NA)
Net ton-miles per train-mile ²	Number	1,820	1,976	1,938	2,232	2,029	2,029	2,059	2,175	2,265	2,345	(NA)
Net ton-miles per loaded car-mile ³	Number	44.9	50.1	51.7	59.9	53.2	55.1	57.9	63.5	67.1	68.3	(NA)
Train-miles per train-hour.....	Miles.	20.1	19.9	20.0	20.1	19.8	19.3	17.2	18.2	19.0	21.4	(NA)

NA Not available. ¹Preliminary. ²Revenue and nonrevenue freight.

Source: 1970–1978, U.S. Interstate Commerce Commission, *Annual Report; Transport Statistics in the United States*, Part 1, annual, and related quarterly reports; *Financial and Operating Statistics, Class I Railroads*, Statement No. 100, semiannual, and unpublished data; thereafter, Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts*, annual.

No. 1064. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1983, AND BY COMMODITY GROUP, 1982 AND 1983

[In thousands. Figures are 52-week totals. Data for 1978–83 include 12 class II railroads which were class I in 1977. See text, p. 586, for definition of class I. N.e.c. = Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1982	1983		1982	1983
1960.....	30,441	554	Coal.....	5,629	5,210	Crushed stone, gravel, sand.....	475	503
1965.....	29,248	1,077	Metallic ores.....	1,115	824	Nonmetallic minerals, n.e.c.....	504	585
1970.....	27,180	1,450	Chemicals, allied products.....	1,117	1,199	Waste and scrap materials.....	405	421
1975.....	29,217	1,308	Grain.....	1,265	1,380	Lumber, wood products (exc. furniture), n.e.c.....	308	366
1976.....	23,457	1,506	Motor vehicles and equipment.....	713	667	Forwarder and shipper association traffic.....	429	453
1977.....	23,173	1,689	Pulp, paper, allied products.....	829	778	Coke.....	232	282
1978.....	23,355	1,841	Primary forest products.....	766	739	Petroleum products.....	244	239
1979.....	23,892	1,858	Food and kindred products, n.e.c.....	681	606	Farm products, exc. grain.....	218	205
1980.....	22,598	1,661	Grain mill products.....	619	593	Less than carload.....	66	15
1981.....	21,613	1,723	Metals and products.....	454	434	All other carloads.....	2,219	2,587
1982.....	18,498	1,920	Stone, clay, and glass products.....	509	534			
1983.....	18,800	2,339						

Source: Association of American Railroads, Washington, DC, *Cars of Revenue Freight Loaded*, annual.

No. 1065. RAILROADS, CLASS I LINE-HAUL—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP: 1970 TO 1983

[Data for 1976 are omitted due to incomplete reporting. See *Historical Statistics, Colonial Times to 1970*, series Q 332, for total carloads originated]

COMMODITY GROUP	1970	1973	1974	1975	1977	1978	1979	1980	1981	1982	1983
CARLOADS (1,000)											
Total¹	27,015	26,990	26,223	22,930	22,823	22,482	23,409	22,223	21,343	16,585	19,013
Coal.....	5,296	4,628	4,691	4,844	4,809	4,372	5,329	5,789	5,835	5,718	5,276
Farm products.....	2,374	2,459	2,124	1,873	1,571	1,599	1,721	1,866	1,637	1,566	1,642
Food and kindred products.....	2,706	2,428	2,390	2,154	2,022	1,922	1,348	1,767	1,557	1,391	1,316
Metallic ores.....	1,602	1,573	1,575	1,338	1,020	1,405	1,480	1,258	1,354	761	812
Chemicals, allied products.....	1,576	1,527	1,521	1,313	1,421	1,425	1,471	1,322	1,322	1,120	1,216
Nonmetallic minerals ²	2,204	2,243	1,700	1,895	1,725	1,450	1,592	1,474	1,272	958	1,079
Lumber and wood prod. ³	2,048	2,093	1,263	1,135	1,417	1,352	1,278	1,004	939	501	1,075
Transportation equipment.....	1,059	1,475	1,221	1,015	1,077	975	977	954	899	755	945
Pulp, paper, allied products.....	1,197	1,211	1,105	798	814	873	913	756	760	459	440
Primary metal products.....	1,486	1,107	1,105	906	924	911	920	776	690	516	543
Stone, clay, and glass prod.....	1,231	1,212	1,127	788	814	873	913	756	760	459	440
Waste and scrap materials.....	805	871	949	744	689	734	713	632	610	409	417
Petroleum and coal prod.....	699	975	954	787	768	704	716	596	607	467	495
Machinery, exc. electrical.....	200	182	186	156	110	104	90	77	66	43	38
Fabricated metal prod. ⁴	398	333	336	244	112	96	87	72	55	36	33
TONS (mil.)											
Total¹	1,484.9	1,532.2	1,530.7	1,395.1	1,394.7	1,390.4	1,502.1	1,492.4	1,453.0	1,268.6	1,292.6
Coal.....	404.6	376.1	390.9	407.6	414.9	383.1	479.8	522.1	527.8	523.8	493.6
Farm products.....	134.2	156.1	142.2	134.4	121.9	128.7	138.5	156.1	139.9	133.5	142.2
Food and kindred products.....	110.1	106.0	107.3	100.2	98.7	95.4	93.2	91.9	82.8	77.0	75.2
Metallic ores.....	126.7	125.1	126.5	106.4	83.2	112.5	119.9	105.4	113.8	62.6	88.4
Chemicals, allied products.....	91.6	99.7	101.4	91.4	104.3	106.7	112.4	103.3	105.9	91.2	99.3
Nonmetallic minerals ²	163.3	170.5	171.0	150.6	139.6	135.0	132.3	124.8	110.0	84.7	95.5
Lumber and wood prod. ³	101.9	108.9	105.3	88.6	99.3	95.1	93.1	85.5	80.3	65.9	71.7
Transportation equipment.....	24.2	34.3	29.8	27.3	33.6	32.2	30.6	23.9	22.2	18.8	22.2
Pulp, paper, allied products.....	42.5	46.5	48.2	40.6	44.9	41.4	42.4	42.1	41.6	36.4	36.6
Primary metal products.....	82.2	71.4	70.3	51.4	55.2	60.3	63.9	52.7	53.3	32.0	32.0
Stone, clay, and glass prod.....	71.1	72.6	68.0	56.8	59.9	59.9	61.5	53.7	49.2	38.2	41.6
Waste and scrap materials.....	39.8	44.7	48.1	38.2	36.1	37.8	38.5	34.3	34.1	22.7	24.5
Petroleum and coal prod.....	36.3	52.6	53.0	45.8	46.1	44.4	43.9	38.1	39.0	31.6	33.6
Machinery, exc. electrical.....	4.6	4.0	4.2	3.6	2.7	2.5	2.3	2.0	1.7	1.2	.8
Fabricated metal prod. ⁴	11.3	10.7	11.3	8.2	2.9	2.5	2.3	2.0	1.7	1.0	.8
GROSS REVENUE (mil. dol.)											
Total¹	11,388	14,335	16,378	15,899	19,394	20,785	24,283	26,938	29,590	26,504	26,710
Coal.....	1,381	1,426	1,848	2,146	2,698	2,813	3,872	4,956	5,977	6,307	5,969
Farm products.....	1,068	1,448	1,051	1,472	1,880	1,678	2,101	2,801	2,821	2,305	2,374
Food and kindred products.....	1,363	1,535	1,776	1,822	2,041	2,156	2,421	2,937	2,928	2,604	2,349
Metallic ores.....	393	403	494	468	447	553	621	597	723	403	450
Chemicals, allied products.....	1,197	1,433	1,739	1,681	2,212	2,342	2,739	2,946	3,288	2,942	3,078
Nonmetallic minerals ²	409	502	604	596	587	723	829	948	1,036	852	834
Lumber and wood prod. ³	832	1,145	1,132	1,066	1,416	1,461	1,546	1,543	1,559	1,303	1,527
Transportation equipment.....	734	1,301	1,271	1,283	1,988	2,089	2,167	1,917	2,120	1,936	2,292
Pulp, paper, allied products.....	730	889	1,058	977	1,212	1,280	1,445	1,652	1,848	1,717	1,671
Primary metal products.....	813	843	1,027	848	957	1,104	1,291	1,332	1,559	977	816
Stone, clay, and glass prod.....	512	543	705	651	822	902	1,018	1,025	1,114	888	908
Waste and scrap materials.....	232	309	409	359	404	432	479	513	573	418	423
Petroleum and coal prod.....	305	493	600	573	690	713	835	865	1,019	867	844
Machinery, exc. electrical.....	148	170	204	200	163	166	174	176	176	115	75
Fabricated metal prod. ⁴	210	224	267	221	121	115	117	110	105	71	52

¹ Includes commodity groups and small packaged freight shipments, not shown separately. ² Except fuels.

³ Except furniture. ⁴ Except ordinance, machinery, and transport.

Source: 1970-1979, U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

No. 1066. PRODUCER PRICE INDEXES FOR TOTAL RAILROAD FREIGHT: 1970 TO 1983

[1969=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total railroad freight.....	108.8	129.3	149.7	169.4	186.6	199.1	213.1	243.3	284.5	327.6	351.4	355.8
Annual percent change.....	8.6	5.9	15.8	13.2	10.2	6.7	7.0	14.2	16.9	15.1	7.3	1.3
Coal.....	108.6	132.5	154.8	177.5	199.6	211.6	228.2	266.2	306.3	350.7	385.2	390.6
Farm products.....	108.3	125.2	145.3	165.0	182.7	191.3	204.9	235.9	275.6	315.0	337.2	342.9
Food and kindred products.....	108.9	128.8	148.9	168.6	185.1	195.3	210.1	239.2	283.1	329.4	353.2	356.6
Metallic ores.....	108.9	133.0	155.0	178.4	197.8	211.1	227.3	263.5	307.9	355.3	387.3	395.4
Chemicals and allied products.....	108.6	127.6	147.9	168.5	183.8	191.7	208.5	235.5	274.3	316.2	340.1	342.6
Nonmetallic minerals.....	108.0	130.0	150.5	172.4	191.7	205.1	221.2	257.5	308.1	368.8	398.1	403.5
Lumber and wood products.....	109.4	127.4	147.4	165.6	177.9	191.7	205.7	233.4	278.1	326.2	350.7	357.4
Transportation equipment.....	108.4	131.9	153.5	173.5	190.2	204.3	217.6	246.2	281.9	319.2	326.4	329.2
Pulp, paper, and allied products.....	108.9	124.5	143.5	162.7	176.1	185.5	197.1	227.7	264.8	305.3	326.9	331.0
Primary metal products.....	109.5	132.1	153.3	174.8	191.6	205.0	217.9	247.1	284.3	324.5	345.5	348.5
Stone, clay, concrete, glass, products.....	109.4	131.2	153.1	174.5	192.2	206.4	223.4	255.3	301.8	351.9	379.5	383.4

¹ Change from 1970.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

NO. 1067. RAILROAD ACCIDENT—DEATHS AND INJURIES: 1970 TO 1983

[Casualty data prior to 1975 cover only those cases where a person lost time from that person's job or other usual activity. Beginning 1975, covers cases with lost time, those requiring medical treatment beyond first aid, termination of employment, transfer to another job, loss of consciousness, and occupational illnesses. Prior to 1975, cases where death occurred more than 24 hours after the injury were classified as injuries; beginning 1975 they were classified as deaths. See also *Historical Statistics, Colonial Times to 1970*, series Q 385-387 and Q 400-401]

TYPE OF CASUALTY	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Persons killed, total	2,225	1,560	1,630	1,530	1,646	1,429	1,417	1,284	1,119	1,073
In highway grade crossing accidents ¹	1,440	978	1,114	944	1,021	834	788	697	580	542
Involving motor vehicles ²	1,337	765	956	822	908	704	682	593	510	466
Passengers on trains.....	8	8	5	4	13	6	4	4	9	4
Railroad employees on duty.....	155	110	100	114	122	101	97	65	78	61
Trespassers and other.....	2,062	1,442	1,525	1,412	1,511	1,322	1,316	1,215	1,032	1,008
Persons injured	21,327	54,306	65,331	67,867	72,545	74,126	62,246	53,003	40,275	34,819
In highway grade crossing accidents ¹	3,336	4,168	4,031	4,649	4,256	4,172	3,662	3,121	2,508	2,467
Involving motor vehicles ²	3,205	3,568	4,307	4,455	4,087	3,938	3,486	2,975	2,386	2,355
Passengers on trains.....	489	1,307	998	503	1,252	1,001	593	409	387	502
Railroad employees on duty.....	15,743	47,318	57,889	61,028	65,071	66,924	56,331	47,838	36,032	30,416
Trespassers and other.....	5,095	5,681	6,444	6,336	6,222	6,201	5,322	4,756	3,856	3,901

¹ Accidents at public crossings only. ² Excludes motorcycles.

Source: U.S. Federal Railroad Administration, *Accident Bulletin*, annual, and *Rail-Highway Crossing Accident/Incidents and Incident Bulletin*, annual.

NO. 1068. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1972 TO 1982

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission from 1972 to 1976, and Federal Energy Regulatory Commission beginning 1977]

ITEM	Unit	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Miles of pipeline, total.....	1,000.....	172.1	170.1	169.0	170.7	169.9	154.5	161.6	169.8	172.7	172.8	172.5
Gathering lines.....	1,000.....	42.3	42.9	40.7	40.4	37.6	34.7	36.5	36.9	36.3	36.6	35.6
Trunk lines.....	1,000.....	129.8	127.2	128.3	130.3	132.3	119.8	125.1	132.9	136.4	134.2	136.9
Total deliveries.....	Mil. bbl.....	8,847	9,416	9,132	9,391	9,742	10,019	10,768	11,140	10,600	10,223	10,181
Crude oil.....	Mil. bbl.....	5,510	5,760	5,698	5,729	5,996	6,089	6,550	6,728	6,405	6,070	5,968
Products.....	Mil. bbl.....	3,337	3,656	3,434	3,662	3,746	3,930	4,218	4,412	4,195	4,153	4,213
Total trunk line traffic.....	Bil. bbl-miles.....	2,887	2,502	2,632	2,892	2,918	3,895	3,723	3,577	3,405	3,554	3,442
Crude oil.....	Bil. bbl-miles.....	1,520	1,262	1,456	1,551	1,639	2,267	2,031	1,946	1,948	1,813	1,838
Products.....	Bil. bbl-miles.....	1,167	1,240	1,176	1,341	1,279	1,627	1,681	1,631	1,458	1,740	1,484
Carrier property value.....	Mil. dol.....	6,749	7,000	8,038	10,740	13,684	16,736	17,654	18,990	19,752	21,250	21,942
Operating revenues.....	Mil. dol.....	1,338	1,438	1,579	1,669	2,132	2,818	4,990	5,781	6,356	6,678	7,140
Net income.....	Mil. dol.....	415	408	330	456	595	478	1,696	1,648	1,912	2,031	2,162

Source: PennWell Publishing Co., Tulsa, Oklahoma, *Oil and Gas Journal*, November 28, 1983 and earlier issues. (Copyright.)

NO. 1069. INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1970 TO 1982

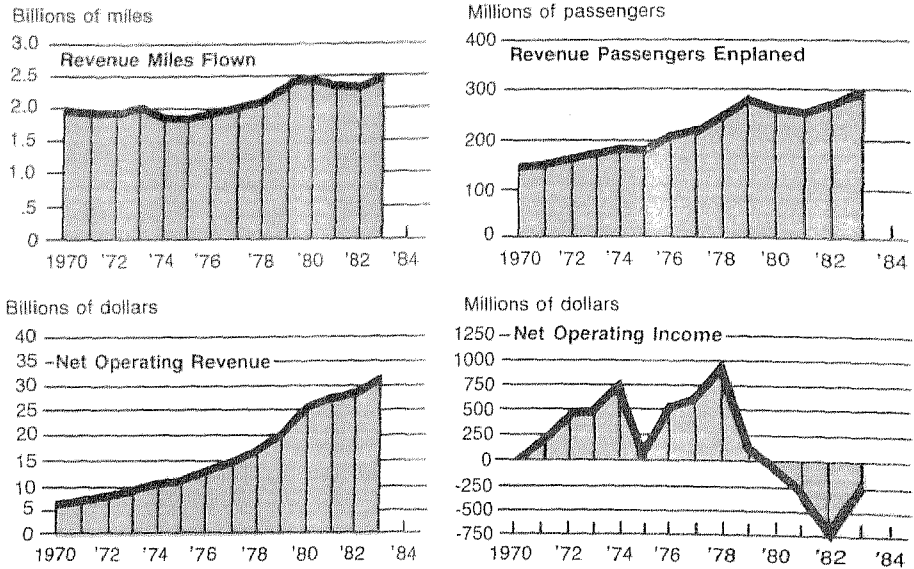
[Excludes companies whose operations are limited to production of natural gas and sales of gas at or near the point of production. Covers classes A and B interstate natural gas pipeline companies with annual gas operating revenues of \$1,000,000 or more]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982
Sales	Tril. cu. ft.	19.9	16.5	15.7	16.2	17.7	17.3	17.8	16.2
Residential.....	Tril. cu. ft.	.6	.5	.6	.8	.6	.8	.7	.7
Commercial, industrial.....	Tril. cu. ft.	2.9	1.9	1.9	1.9	2.1	2.3	2.5	2.1
For resale.....	Tril. cu. ft.	16.3	14.0	13.2	13.6	14.8	14.4	14.5	13.3
Operating revenues.....	Mil. dol.	7,955	14,278	22,289	25,965	35,509	45,271	55,710	64,165
From sales ¹	Mil. dol.	7,576	13,451	21,126	24,832	33,960	43,222	53,272	61,364
Residential.....	Mil. dol.	622	758	1,316	1,520	1,754	2,001	2,927	3,595
Commercial, industrial.....	Mil. dol.	1,025	1,646	2,642	3,272	4,527	5,950	8,189	8,210
For resale.....	Mil. dol.	5,998	11,003	16,912	19,977	27,987	35,271	42,062	49,419
From transportation of gas to others.....	Mil. dol.	188	387	559	619	772	924	1,055	1,318
Other.....	Mil. dol.	191	440	604	511	757	1,125	1,383	1,493
Operation, maintenance expenses.....	Mil. dol.	5,802	10,374	17,598	20,954	29,867	39,154	49,307	57,033
Production.....	Mil. dol.	4,546	8,579	15,098	18,048	26,157	34,742	43,733	50,577
Storage.....	Mil. dol.	63	140	205	254	303	367	448	448
Transmission.....	Mil. dol.	534	912	1,300	1,519	2,077	2,547	3,278	3,682
Distribution.....	Mil. dol.	92	122	178	193	217	245	312	334
Administrative, general, and other.....	Mil. dol.	368	627	817	940	1,141	1,317	1,617	1,812
Pipeline mileage:									
Transmission lines.....	1,000.....	102.0	187.2	189.9	190.7	193.4	192.4	186.8	201.9
Field lines.....	1,000.....	51.6	57.1	60.2	63.0	66.2	69.7	73.0	76.2
Storage.....	1,000.....	3.5	4.2	4.2	4.3	4.4	12.1	4.3	7.2

¹ Includes other ultimate customers not shown separately.

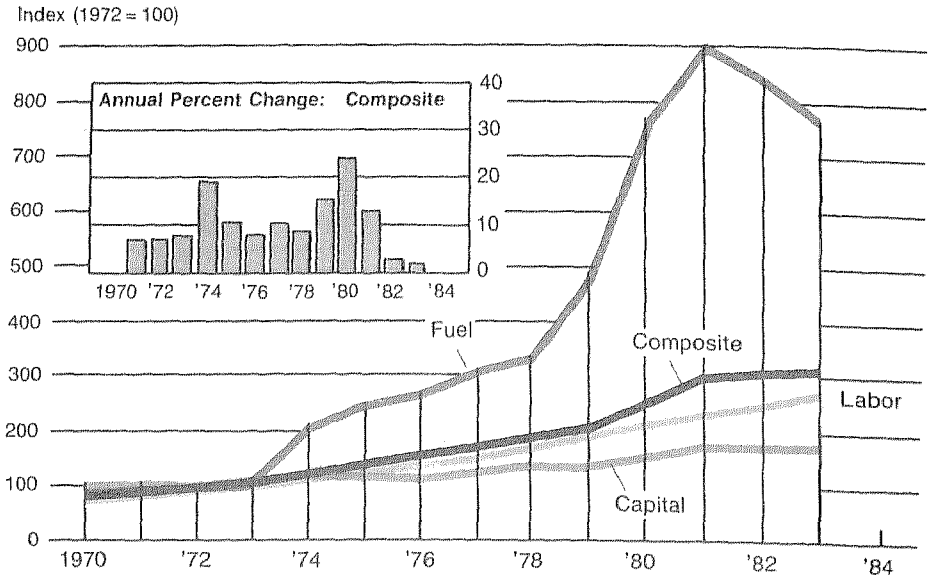
Source: 1970 and 1975, U.S. Federal Power Commission; 1977-1981, U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual, and 1982, Federal Energy Regulatory Commission, unpublished data.

Figure 23.1
Domestic Scheduled Air Carriers: 1970 to 1983

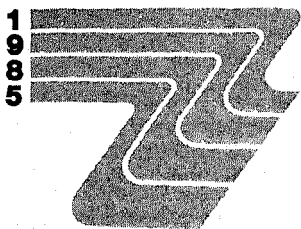


Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1070 and 1071.

Figure 23.2
Airline Cost Indexes: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1075.



Transportation— Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 22.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and *U.S. Airborne Exports and General Imports*, the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

Civil aviation.—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB sunsetted. Some of its functions were transferred to the Department of Transportation. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

Air carriers and service.—The CAB issued "certificates of public convenience and necessity" in two categories: *Certificated route air carriers* (often referred to as "scheduled airlines") and *supplemental (or charter) air carriers* (see footnote 3, table 1077). Certificated route air carriers are passenger/cargo and all-cargo carriers which are authorized to perform *scheduled service* over specified routes according to published flight schedules. Certificated route carriers are, however, allowed to perform some *nonscheduled service* (i.e., revenue flights outside of the regular schedule, such as charter flights, and all nonrevenue flights incident to such flights).

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which

clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

Units of measurement.—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

NO. 1070. CERTIFICATED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1970 TO 1983

(In millions of dollars, except number of carriers. 1970-1979, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (-) indicates loss. See also headnote, table 1071, and *Historical Statistics, Colonial Times to 1970*, series Q 591-603)

ITEM	1970	1975	1976	1977	1978	1979	1980	1981 ¹	1982 ¹	1983, ¹ prel.
Number of air carriers.....	39	33	33	33	35	49	63	98	98	98
DOMESTIC										
Revenue.....	7,131	11,911	13,789	15,690	17,943	21,337	26,404	29,768	29,728	31,006
Passenger.....	6,359	10,290	12,104	13,772	15,763	18,830	23,317	25,504	25,440	27,518
Mail (including subsidy).....	205	247	292	355	334	413	530	581	572	538
Express and freight.....	472	702	835	978	1,107	1,184	1,582	1,859	1,505	1,805
Other.....	94	672	558	565	749	810	974	1,034	1,211	1,347
Expenses.....	7,129	11,781	13,213	15,036	16,948	21,213	26,409	29,051	29,478	31,184
Flying operations.....	2,098	3,869	4,401	5,229	5,577	7,887	11,029	12,037	11,529	11,378
Maintenance.....	1,127	1,595	1,802	1,986	2,125	2,421	2,758	2,821	2,709	2,877
General services and administration.....	3,157	5,050	5,774	6,536	7,556	9,120	10,545	11,943	12,825	14,270
Passenger service.....	707	1,118	1,280	1,461	1,711	2,091	2,329	2,522	2,668	2,893
Aircraft and traffic servicing.....	1,298	2,125	2,412	2,693	3,069	3,619	4,051	4,497	4,665	5,101
Promotion and sales.....	809	1,265	1,490	1,708	2,028	2,547	3,098	3,708	4,180	4,765
General and administrative.....	344	544	612	674	754	863	1,069	1,216	1,332	1,421
Depreciation and amortization.....	745	893	920	960	1,213	1,352	1,560	1,723	1,876	2,105
Transport related.....	(NA)	383	316	325	477	453	517	526	537	558
Net operating income.....	3	129	576	654	995	123	-8	-264	-750	-176
INTERNATIONAL										
Revenue.....	1,913	3,063	3,316	3,774	4,332	5,191	6,543	6,390	6,435	7,172
Passenger.....	1,553	2,435	2,638	3,019	3,494	4,226	4,984	4,916	4,959	5,609
Mail (including subsidy).....	110	97	85	88	92	107	176	165	177	152
Express and freight.....	209	391	409	444	457	534	1,011	984	989	998
Other.....	41	150	180	224	286	325	372	325	309	415
Expenses.....	1,894	3,059	3,182	3,552	4,008	5,105	6,766	6,574	6,452	6,867
Flying operations.....	515	1,050	1,089	1,170	1,211	1,795	2,775	2,757	2,596	2,486
Maintenance.....	241	363	368	414	468	521	616	540	512	549
General services and administration.....	950	1,345	1,431	1,609	1,888	2,269	2,811	2,752	2,795	3,059
Passenger service.....	223	287	296	347	422	531	600	583	577	664
Aircraft and traffic servicing.....	332	510	536	598	676	820	1,049	932	892	938
Promotion and sales.....	293	399	451	506	599	749	917	945	954	1,180
General and administrative.....	103	149	148	158	191	188	246	292	372	297
Depreciation and amortization.....	188	212	193	238	303	327	395	382	396	391
Transport related.....	(NA)	88	101	120	148	173	176	144	152	212
Net operating income.....	19	4	133	222	324	86	-223	-184	-17	475

NA Not available. ¹ Excludes carriers that report system total only (operating revenues of \$1,033 million in 1981, \$902 million in 1982, and \$415 million (preliminary) in 1983; operating expenditures of \$988 million, \$874 million, and \$362 million (preliminary) in 1981, 1982, and 1983 respectively).

Source: U.S. Federal Aviation Administration. From data supplied by U.S. Civil Aeronautics Board, *CAB Air Carrier Financial Data*, annual.

NO. 1071. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1970 TO 1983

[As of Dec. 31 or for calendar years. See text, p. 613. Operations between continental U.S., Puerto Rico, and outlying areas included with international. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633.]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983
Domestic operators ¹	Number.....	35	33	34	52	63	98	98	96
International operators ¹	Number.....	6	2	2					
Employment, total ²	1,000.....	297	290	329	341	371	350	330	329
Pilots, copilots, and other flight personnel.....	1,000.....	33	32	36	37	39	37	35	34
Flight attendants.....	1,000.....	34	39	48	53	57	55	51	54
Mechanics.....	1,000.....	48	45	44	45	45	46	43	39
Aircraft and traffic servicing personnel.....	1,000.....	84	83	96	98	122	95	88	91
Other.....	1,000.....	98	91	104	108	108	117	113	111
Fixed-wing aircraft in operation ³	Number.....	2,421	2,260	2,345	2,466	2,505	2,523	2,468	2,618
Turbojet.....	Number.....	2,041	2,022	2,184	2,308	2,336	2,295	2,377	2,492
Two-engine.....	Number.....	519	500	579	621	652	731	863	974
Three-engine.....	Number.....	631	961	1,140	1,232	1,311	1,284	1,260	1,296
Four-engine.....	Number.....	891	561	465	455	373	200	254	222
Turboprop.....	Number.....	316	193	155	152	163	223	88	118
Piston.....	Number.....	64	45	6	6	6	5	3	8
Average available seats: ⁴ ⁵									
Domestic.....	Number.....	110.4	130.4	140.0	139.9	143.1	147.2	153.0	155.1
International.....	Number.....	154.9	224.8	244.1	259.1	274.5	279.6	283.0	283.8
Average/hr. speed: ⁵									
Domestic.....	Mi. per hr.....	403	403	409	406	405	403	408	412
International.....	Mi. per hr.....	482	482	489	493	494	494	483	480
Jet fuel consumed: ⁶									
Domestic.....	Mill. gal.....	7,842	7,558	8,621	9,376	9,218	8,994	8,326	8,556
International.....	Mill. gal.....	2,241	1,949	1,913	1,993	2,093	1,826	1,942	1,970
Revenue-miles flown ⁵									
Domestic.....	Millions.....	2,426	2,241	2,520	2,791	2,816	2,703	2,699	2,798
Domestic.....	Millions.....	2,027	1,909	2,201	2,435	2,471	2,396	2,387	2,472
International.....	Millions.....	399	332	319	355	345	307	312	326
Revenue passengers enplaned ⁵									
Domestic.....	Millions.....	169	205	275	317	297	286	294	318
Domestic.....	Millions.....	153	189	254	293	273	265	274	296
International.....	Millions.....	16	16	21	24	24	21	20	22
Revenue passenger-miles flown: ⁵									
Domestic.....	Billions.....	104.1	131.7	182.7	208.9	200.8	198.7	210.1	226.5
International.....	Billions.....	27.6	31.1	44.1	53.1	54.4	50.1	49.5	54.8
Average passenger-mile rate: ⁵ ⁷									
Domestic.....	Dollars.....	.080	.077	.085	.091	.113	.127	.121	.121
International.....	Dollars.....	.050	.072	.075	.077	.075	.095	.100	.102
Express and freight revenue, ton-miles flown ⁵									
Domestic.....	Millions.....	3,515	4,796	5,818	5,964	5,742	5,686	5,482	6,087
Domestic.....	Millions.....	2,218	2,747	3,505	3,466	3,277	3,350	3,039	3,383
International.....	Millions.....	1,299	2,049	2,313	2,498	2,465	2,336	2,443	2,704
Mail, ton-miles flown: ⁵									
Domestic.....	Millions.....	715	683	807	853	949	998	1,004	1,064
International.....	Millions.....	549	426	374	372	393	376	400	415
Accidents (scheduled passenger service):									
Total ⁸	Number.....	39	28	19	18	19	25	16	19
Fatal.....	Number.....	2	2	4	5	2	4	5	4
Fatalities.....	Number.....	3	122	16	352	14	4	235	15

¹ The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo.

² Scheduled airlines only. Source: Air Transport Association of America, Washington, DC *Air Transport Facts and Figures*, annual.

³ Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1975, includes aircraft operated by the scheduled all-cargo certificated route air carriers.

⁴ Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service.

⁵ Scheduled services of all certificated route air carriers; includes all cargo.

⁶ Includes all cargo. Beginning 1978 includes very small amount of gasoline.

⁷ Passenger revenues divided by revenue passenger-miles flown.

⁸ Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents).

Source: Except as noted, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Includes data from U.S. Civil Aeronautics Board and U.S. National Transportation Safety Board.

NO. 1072. CERTIFICATED ROUTE AIR CARRIERS—SERVICE AND TRAFFIC: 1970 TO 1983

[In millions, except as indicated]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983
Revenue ton-miles, all services.....	20,186	23,534	31,095	34,551	34,656	33,923	35,051	37,902
Revenue ton-miles, scheduled.....	18,166	22,186	29,679	33,390	32,603	31,949	32,849	35,697
Passenger ¹	13,171	16,281	22,678	26,202	25,519	24,859	25,863	28,131
U.S. mail.....	1,470	1,097	1,168	1,206	1,318	1,348	1,375	1,449
Foreign mail.....	10	12	14	18	24	26	29	30
Express.....	107	29	56	56	56	68	58	66
Freight.....	3,408	4,766	5,763	5,908	5,686	5,618	5,424	6,021
Revenue ton-miles, charter ²	2,020	1,348	1,416	1,161	2,053	1,974	2,201	2,206
Available ton-miles, all services.....	44,298	49,289	56,869	62,546	66,163	64,245	65,770	68,561
Ton-mile load factor (percent).....	45.6	47.7	54.7	55.2	52.4	52.8	53.3	55.3
Scheduled services total:								
Revenue passengers enplaned, scheduled.....	170	205	275	317	297	286	294	318
Revenue passenger-miles (bil.).....	132	163	237	262	255	249	260	281
Available seat-miles (bil.).....	265	303	369	416	433	425	440	483
Passenger load factor (percent).....	49.7	53.7	61.5	63.0	59.0	58.6	59.0	60.7
Revenue passenger-miles per gallon of fuel (number) ³	15.4	16.7	22.9	24.3	24.1	24.8	26.1	27.4
Revenue plane-miles.....	2,418	2,241	2,520	2,791	2,816	2,703	2,699	2,798

¹ A passenger ton-mile represents 1 ton of passenger weight, including free and excess baggage, transported 1 mile.² Passenger and cargo. ³ For major and national airlines; see headnote, table 1075.Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual. Data from Civil Aeronautics Board.

NO. 1073. LARGE AIR TRAFFIC HUBS—SUMMARY: 1983

[In thousands, except number of airports. For calendar year. Air traffic hubs are cities and standard metropolitan statistical areas requiring aviation services. A large hub is one which enplanes at least one percent of the total enplaned revenue passengers in all services and all operations of U.S. certificated route air carriers]

AREA OR HUB	Air-ports ¹	AIRCRAFT DEPARTURES			Revenue passengers enplaned	ENPLANED REVENUE TONS		
		Total ²	Scheduled			Total ³	Freight and express	U.S. mail
			Number	Completed				
Total, all areas	677	5,043.0	5,082.1	4,982.1	319,886.3	4,512.6	3,219.5	1,277.5
Total, 26 large hubs	40	2,893.0	2,914.7	2,860.7	220,388.8	2,991.1	2,059.1	930.3
Atlanta, GA.....	1	243.3	245.1	242.3	18,648.2	243.9	156.8	87.1
Boston, MA.....	1	90.0	90.0	88.7	8,044.7	135.3	104.5	30.7
Charlotte, NC.....	1	70.0	70.5	69.7	3,763.8	30.4	18.4	12.0
Chicago, IL.....	3	252.4	254.5	250.8	18,953.7	417.8	305.2	112.5
Dallas-Ft. Worth, TX.....	2	207.3	209.0	206.6	15,882.6	137.0	78.8	58.2
Denver, CO.....	1	149.9	153.7	149.5	11,401.0	102.6	61.9	40.6
Detroit/Ann Arbor, MI.....	2	85.1	84.0	82.8	4,888.1	73.2	49.8	23.4
Honolulu, HI.....	1	45.3	48.2	42.6	5,375.2	101.0	82.2	18.3
Houston, TX.....	1	130.0	132.6	129.6	8,504.4	54.8	38.2	16.5
Las Vegas, NV.....	1	59.5	59.2	58.6	4,588.6	5.8	2.9	3.0
Los Angeles/Burbank/Long Beach, CA.....	4	179.8	181.3	178.2	17,369.0	343.9	277.5	68.4
Miami/Ft. Lauderdale, FL.....	2	128.8	127.4	124.8	9,942.9	115.2	88.3	26.6
Minneapolis/St. Paul, MN.....	1	86.7	87.3	85.9	5,781.5	74.8	46.4	28.4
Newark, NJ.....	1	94.4	95.5	93.7	8,300.3	69.5	43.0	26.5
New York, NY.....	2	187.7	187.0	183.1	16,580.7	384.5	273.0	111.4
Orlando, FL.....	1	55.3	55.0	54.3	3,721.1	16.5	12.0	4.5
Philadelphia, PA/Camden, NJ.....	1	60.3	61.0	59.8	3,980.6	62.5	29.1	33.3
Phoenix, AZ.....	1	77.5	77.9	77.1	4,800.7	21.8	12.1	9.5
Pittsburgh, PA/Wheeling, WV.....	1	90.7	91.5	90.2	5,544.4	26.9	8.0	18.9
St. Louis, MO.....	1	12.5	125.6	123.9	7,815.4	69.6	33.5	36.1
Salt Lake City, UT.....	1	54.8	55.3	54.6	3,237.4	42.8	18.1	24.7
San Diego, CA.....	1	36.3	36.4	36.1	3,142.8	17.2	10.1	7.0
San Francisco/Oakland, CA.....	2	139.5	140.2	137.8	11,650.2	230.0	177.4	52.6
Seattle/Tacoma, WA.....	3	65.5	66.0	64.9	4,955.6	126.9	98.2	28.3
Tampa/St. Petersburg/Clearwater/Lakeland, FL.....	2	65.6	65.6	64.5	3,830.1	20.9	12.4	8.5
Washington, DC.....	2	112.9	114.9	111.1	7,885.8	66.5	21.3	45.2

¹ Airports serving area or hub. Airports certificated under Federal Aviation Regulation (FAR Part 139) served by scheduled and unscheduled air carriers. ² Includes completed scheduled and unscheduled. ³ Includes foreign mail, not shown separately.Source: U.S. Federal Aviation Administration, *Airport Activity Statistics*, annual.

No. 1074. CIVIL FLYING—SUMMARY: 1970 TO 1983

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 604-623]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983
Airports in operation ¹	Number	11,261	13,251	14,574	14,746	15,161	15,476	15,831	16,029
Heliports	Number	790	1,524	1,986	2,108	2,336	2,507	2,712	2,918
Public	Number	4,260	4,573	4,751	4,761	4,814	4,798	4,805	4,812
Private	Number	7,001	8,678	9,823	9,985	10,347	10,678	11,026	11,217
Airports with runway lights	Number	3,554	4,171	4,567	4,631	4,738	4,795	4,844	4,878
Airports with paved runways	Number	3,805	4,665	5,484	5,618	5,833	5,626	6,223	5,441
Miles of Federal airways	1,000	324.7	403.9	605.7	615.5	615.5	569.6	566.6	564.5
Airport Improvement Program ²	Mil. dol	50.5	339.9	539.8	624.2	639.0	442.6	407.1	721.5
Total civil aircraft	1,000	154.5	196.3	236.8	251.5	259.4	261.6	259.0	264.9
Active aircraft	1,000	134.5	171.2	201.3	213.9	214.8	217.2	214.0	(NA)
Air carriers, total ³	1,000	2.8	2.5	2.6	3.6	3.8	4.0	4.2	4.0
General aviation aircraft ⁴	1,000	191.7	168.5	198.7	210.3	211.0	213.2	209.8	(NA)
Fixed-wing aircraft:									
Multi-engine	1,000	18.4	24.6	28.9	31.3	31.7	33.5	33.2	(NA)
Single-engine:									
4-place and over	1,000	64.6	82.6	101.5	106.0	107.9	108.0	106.5	(NA)
3-place and less	1,000	44.9	54.4	59.2	62.4	60.5	59.9	57.7	(NA)
Rotocraft ⁵	1,000	2.2	4.1	5.1	5.9	4.9	7.0	6.2	(NA)
Balloons, blimps, gliders, etc.	1,000	1.6	2.8	4.0	4.8	5.0	5.0	6.2	(NA)
Airman certificates held	1,000	1,023	1,052	1,161	1,192	1,221	1,163	1,154	1,151
Pilot ⁷	1,000	733	728	799	815	827	764	733	718
Held by women	Percent	4.0	5.2	6.2	6.4	6.4	6.2	4.5	4.4
Airline transport	1,000	34	43	56	64	70	70	73	75
Commercial	1,000	187	189	186	182	193	169	165	159
Private	1,000	304	306	338	343	357	329	322	319
Student	1,000	196	177	205	210	200	180	156	147
Nonpilot ⁸	1,000	290	324	362	377	393	398	421	433
Ground technicians ⁹	1,000	241	271	302	307	321	336	352	365
General aviation: ⁵									
Hours flown ¹⁰	Million	26.0	32.0	39.4	43.3	41.0	40.7	36.5	(NA)
Fuel consumed: ¹¹									
Gasoline	Mil. gal	362	397	518	570	520	(NA)	448	(NA)
Jet fuel ¹²	Mil. gal	415	510	763	736	766	(NA)	887	(NA)
Domestic air cargo, revenue ton-miles flown ¹³	Million	2,581	3,049	3,824	3,794	3,579	3,660	3,472	3,981
Certificated route carriers:									
Scheduled service ¹⁴	Million	2,215	2,747	3,505	3,466	3,277	3,360	3,039	3,383
Nonscheduled service ¹⁴	Million	80	39	57	88	¹⁵ 302	¹⁵ 310	¹⁵ 433	¹⁵ 548
Supplemental carriers ¹⁶	Million	285	263	262	240	(¹⁵)	(¹⁵)	(¹⁵)	(¹⁵)
Aircraft accidents: ¹⁷									
General aviation ⁵	Number	4,712	4,001	4,218	3,825	3,597	3,502	3,216	3,081
Fatal	Number	641	636	721	638	622	654	578	548
Rate per 100,000 aircraft hours flown	Rate	(NA)	2.20	2.06	1.65	1.71	1.78	1.79	1.87
Fatalities	Number	1,310	1,258	1,558	1,237	1,252	1,282	1,161	1,049
Air carrier ¹⁸	Number	55	31	21	24	15	25	16	19
Fatal	Number	8	2	5	4	-	4	5	4
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.001	.002	.001	-	.001	.001	.001
Fatalities	Number	146	122	160	39	4	4	235	15
Commuter air carriers ¹⁹	Number	(NA)	48	61	62	38	31	27	17
Fatal	Number	(NA)	12	14	15	8	9	5	2
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.07	.06	.08	.04	.05	.02	.01
Fatalities	Number	(NA)	28	48	66	37	34	14	11
Air taxis ²⁰	Number	(NA)	152	198	160	170	157	133	141
Fatal	Number	(NA)	24	54	30	45	40	50	26
Rate per 100,000 aircraft hours flown	Rate	(NA)	.95	1.52	81	1.24	1.38	.92	.90
Fatalities	Number	(NA)	69	155	77	103	94	70	60
Hijacking incidents, worldwide	Number	83	25	31	27	40	32	31	34
U.S.-registered aircraft	Number	27	12	13	13	22	8	10	19
Successful ²¹	Number	18	4	2	6	13	2	4	13
Foreign-registered aircraft	Number	56	13	18	18	18	24	21	15
Successful ²¹	Number	37	3	8	8	9	13	12	6

- Represents or rounds to zero. NA Not available. ¹ Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use. ² Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1982 data are obligated Federal funds for the Airport Development Aid Program. 1983 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. ³ Registered aircraft that flew 1 or more hours during the year. ⁴ Includes helicopters. ⁵ See text p. 613. ⁶ Includes autogyros; excludes air carrier helicopters. ⁷ Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately. ⁸ Includes dispatchers, control tower operators, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. ⁹ No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹⁰ Hours flown for 1975 and 1976 are revised. In 1980, the 41.0 million flight hours comprised 13.7 hours of business and executive flying, 11.5 hours of commercial flying (including air taxi, aerial applicator, rental aircraft), 5.7 hours of instructional flying, 8.9 hours of personal flying, and 1.0 hours of flying for other purposes. Detail does not add to total due to independent estimating technique. ¹¹ Source: 1970 and 1975, U.S. Bureau of Mines; 1978-1982 FAA General Aviation Activity and Avionics Survey. ¹² Includes kerosene-type and naphtha-type jet fuels. ¹³ Total domestic, includes freight and air express; excludes mail. ¹⁴ Includes civilian and military freight and other revenue ton-miles. ¹⁵ Beginning 1980, supplementals included in nonscheduled service. ¹⁶ Civil and military. ¹⁷ Data from National Transportation Safety Board. ¹⁸ Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 121. ¹⁹ Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 135. ²⁰ Beginning in 1975, includes all nonscheduled service of the U.S. Air Carriers operating under 14 CFR 135. ²¹ Hijacker controls flight and reaches destination or objective.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual, and unpublished data. Includes data from U.S. Civil Aeronautics Board.

NO. 1075. AIRLINE COST INDEXES: 1970 TO 1983

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

ITEM	INDEX (1972 = 100)								PERCENT OF CASH OPERATING EXPENSES ¹			
	1970	1975	1978	1979	1980	1981	1982	1983	1970	1975	1980	1983
Composite	87.8	141.7	183.6	211.3	261.7	295.7	304.0	310.3	100.0	100.0	100.0	100.0
Labor.....	82.9	129.4	176.8	191.7	212.0	233.4	251.6	273.5	46.3	41.2	35.6	36.9
Interest ²	106.5	117.0	143.4	143.7	162.9	182.5	181.9	181.3	4.3	2.9	3.1	4.0
Fuel.....	94.2	252.2	339.3	495.9	774.2	903.0	852.2	767.3	12.7	19.1	30.3	25.0
Passenger food.....	95.5	118.8	126.1	134.7	151.7	164.8	163.1	174.5	3.9	3.4	2.9	3.1
Advertising and promotion.....	99.1	101.3	101.3	108.3	134.6	166.0	191.2	196.8	2.6	1.8	1.6	2.2
Landing fees.....	81.7	133.9	160.2	172.9	189.4	204.9	210.1	212.2	2.2	2.4	1.7	1.7
Passenger traffic commissions.....	81.0	153.2	198.0	227.9	316.1	392.9	408.4	436.2	2.9	3.8	5.3	6.9
All other.....	91.5	125.6	150.4	163.4	178.5	195.2	206.8	215.6	25.0	25.3	19.5	20.2

¹ Total operating expenses plus interest on long term debt, less depreciation and amortization. ² Interest on debt.

Source: Air Transport Association of America, Washington, DC, *Air Transport*, 1983, annual, and unpublished data.

NO. 1076. COMMUTER/REGIONAL AIRLINE OPERATIONS—SUMMARY: 1975 TO 1983

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds payload of cargo serving short haul and small community markets. Represents operations within all North America by U.S. regional carriers]

ITEM	Unit	1975	1977	1978	1979	1980	1981	1982	1983
Carriers.....	Number.....	235	242	252	258	237	277	245	216
Aircraft in service.....	Number.....	1,073	1,130	1,200	1,350	1,606	1,743	1,857	1,808
Alports served.....	Number.....	747	784	702	660	605	776	817	854
Revenue passengers enplaned.....	1,000.....	7,243	9,185	11,026	13,972	14,810	15,420	18,600	21,800
By 50 largest carriers.....	1,000.....	(NA)	7,259	8,422	11,349	12,167	13,000	16,328	14,293
Revenue passenger miles.....	Millions.....	733	946	1,278	1,724	1,917	2,090	2,610	3,240
Cargo pounds ¹	Millions.....	129	196	299	346	472	566	628	396

NA Not available. ¹ Beginning 1983, excludes a major jet express package carrier.

Source: Regional Airline Association, Washington, DC, *Annual Report*.

NO. 1077. CHARTER PASSENGERS, BY FLAG OF AIR CARRIER AND BY AREA OF TRAVEL: 1970 TO 1982

[In thousands. Covers charter flights to, from, or within the U.S. 1970–1975 estimates derived by multiplying available seats by passenger load factors; thereafter, based on actual passengers]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980 ¹	1981 ¹	1982 ¹
Total passengers	3,862	6,236	5,745	7,390	9,038	8,309	6,500	3,329	3,344	3,814
U.S.:										
Route carriers ²	1,355	3,040	2,835	4,109	4,597	3,871	2,854	794	726	959
Charter (supplemental) carriers ³	1,647	2,129	1,470	1,831	2,229	2,405	1,843	790	846	817
Foreign:										
Route carriers ²	390	476	589	721	845	1,023	803	777	824	1,077
Charter (supplemental) carriers ³	470	591	851	929	1,367	1,010	1,000	968	949	962
Domestic travelers.....	1,997	2,348	1,969	2,859	3,524	3,102	2,159	109	71	112
International travelers ⁴	2,465	3,888	3,776	4,531	5,514	5,207	4,341	3,220	3,273	3,702
Transatlantic.....	1,816	2,366	2,321	2,716	3,539	2,821	1,908	1,144	939	975
Latin America ⁵	444	806	684	1,001	1,130	1,416	1,287	698	794	863

¹ The compilation of domestic, and consequently total passengers, no longer includes charter passengers within the contiguous 48 States. In 1979, such passengers were 2,049,000 of the domestic total of 2,159,000. Beginning 1980, domestic travelers represent mainland to Hawaii and Alaska passengers only. ² Covers charter service of scheduled airlines. See text, p. 613 for definition. ³ Covers charter service of charter airlines. Previously known as the U.S. Supplemental Airlines, with certificated charter authority from the Civil Aeronautics Board, charter airlines, as a result of the 1978 Deregulation Act, have authority to engage in both charter and scheduled services. ⁴ Includes other, not shown separately. ⁵ Includes Caribbean.

Source: National Air Carrier Association, Washington, DC, *Annual Report*.

NO. 1078. CIVIL AIRCRAFT SHIPMENTS: 1970 TO 1982

[Represents manufacturers' shipments of non-military complete aircraft. Includes both domestic and export output]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	8,190	15,117	15,196	16,446	18,159	18,882	17,924	13,130	11,067	4,579
Transports.....	311	263	314	238	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
General aviation.....	7,384	14,026	14,043	15,648	17,175	18,048	16,883	11,777	10,114	4,053
Single-engine: 1- to 3-place.....	1,981	3,346	3,047	3,175	3,986	4,881	3,293	8,175	6,825	2,546
4-place and over.....	4,048	8,124	8,460	9,854	10,372	9,501	9,751	3,602	3,289	1,507
Multi-engine.....	1,352	2,556	2,436	2,619	2,817	3,667	3,839	3,615	3,289	1,507
Rotorcraft.....	496	828	839	560	984	833	1,041	1,353	953	526

NA Not available.

Source: Through 1977, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Beginning 1978, U.S. Bureau of the Census, *Current Industrial Reports*, series M-37G.

NO. 1079. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1982

[Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	TOTAL (bil. dol.)						PERCENT U.S. GOVERNMENT					
	1970	1975	1979	1980	1981	1982	1970	1975	1979	1980	1981	1982
Net sales.....	24.8	29.5	46.2	58.4	69.9	75.5	66.3	58.6	50.3	45.7	47.2	56.0
Complete aircraft and parts ¹	10.4	11.3	19.1	22.6	25.1	26.0	54.8	46.9	33.4	29.6	32.7	47.0
Aircraft engines and parts.....	3.1	3.4	5.6	6.9	8.5	7.5	61.5	47.0	40.6	(NA)	(NA)	(NA)
Missiles and parts.....	5.4	6.3	7.2	8.4	9.7	12.0	96.9	93.7	47.0	(NA)	(NA)	(NA)
Other products, services.....	5.9	8.5	14.3	20.5	26.6	23.9	(X)	(X)	(X)	(X)	(X)	(X)
Net, new orders.....	21.2	29.0	65.2	70.4	74.9	86.6	71.4	64.1	43.1	47.6	53.7	64.3
Backlog, Dec. 31.....	24.7	35.0	78.3	90.5	94.7	105.8	52.1	63.2	46.2	41.1	46.7	56.8

NA Not available. X Not applicable. ¹ Except engines sold separately.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MQ-37D.

NO. 1080. AEROSPACE INDUSTRY SALES, BY PRODUCT GROUP AND CUSTOMER: 1970 TO 1983

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1079]

ITEM	CURRENT DOLLARS						CONSTANT (1972) DOLLARS ¹					
	1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
Total sales.....	24.9	30.4	52.9	63.2	66.2	75.8	26.7	23.1	25.2	26.7	25.8	27.9
PRODUCT GROUP												
Aircraft: Total.....	13.9	16.4	30.1	35.9	35.4	41.2	14.9	12.4	14.4	15.2	13.8	15.2
Civil ²	4.4	6.5	16.3	16.4	10.9	12.2	4.7	4.9	7.8	6.9	4.3	4.5
Military.....	9.5	9.9	13.9	19.5	24.5	29.1	10.2	7.5	6.6	8.2	9.5	10.7
Missiles.....	3.7	4.5	6.0	7.0	8.8	9.1	3.9	3.4	2.9	2.9	3.4	3.3
Space.....	4.7	4.7	7.9	9.5	10.5	13.9	5.1	3.6	3.8	4.0	4.1	5.1
Non-aerospace ³	2.6	4.8	8.8	10.9	11.4	11.6	2.8	3.6	4.2	4.6	4.4	4.3
CUSTOMER GROUP												
Aerospace: Total.....	22.3	25.6	44.1	52.3	54.8	64.2	23.9	19.4	21.0	22.1	21.4	23.6
DOD ⁴	14.0	13.8	21.0	26.5	32.5	39.3	15.0	10.5	10.0	11.2	12.7	14.5
NASA ⁵ and other agencies.....	3.0	2.8	4.1	4.7	4.9	5.9	3.2	2.2	2.0	2.0	1.9	2.2
Other customers ⁶	5.3	8.9	19.0	21.1	17.4	19.0	5.6	6.8	9.0	8.9	6.8	7.0
Non-aerospace: ³												
U.S. Government.....	1.5	2.5	4.8	6.0	6.3	6.4	1.6	1.9	2.3	2.5	2.4	2.3
Other.....	1.2	2.3	4.1	4.9	5.1	5.2	1.3	1.7	1.9	2.1	2.0	1.9

¹ Based on aerospace composite price deflator supplied by the International Trade Administration. ² All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). ³ Products and services other than aircraft, missiles, and space vehicles and parts produced by establishments whose principal business is the development and/or manufacture of aerospace products. ⁴ Department of Defense. ⁵ National Aeronautics and Space Administration. ⁶ Includes civil aircraft sales (see footnote 2), commercial space sales and all exports of military aircraft and missiles.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures*, 1984/85.

NO. 1081. EMPLOYMENT AND EARNINGS IN AIRCRAFT INDUSTRIES: 1970 TO 1983

[Annual averages of monthly figures. Covers industries as defined by the 1972 Standard Industrial Classification Manual]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983
Employment, total.....	1,000.....	664	607	621	713	763	769	732	719
Aircraft.....	1,000.....	371	293	288	333	349	344	320	307
Aircraft engines and engine parts.....	1,000.....	(NA)	126	134	152	163	163	149	141
Guided missiles, space vehicles, and parts.....	1,000.....	(NA)	93	93	102	111	123	131	140
Aircraft equipment, n.e.c. ¹	1,000.....	(NA)	95	106	126	140	139	132	131
Average weekly earnings: Aircraft.....	Dollars.....	169	256	324	360	404	444	465	(NA)
Aircraft engines and parts.....	Dollars.....	(NA)	247	325	361	394	422	454	476
Guided missiles, space vehicles, and parts.....	Dollars.....	(NA)	245	317	347	378	410	447	481
Average hourly earnings: Aircraft.....	Dollars.....	4.17	6.21	7.70	8.50	9.66	10.74	11.85	(NA)
Aircraft engines and parts.....	Dollars.....	(NA)	6.04	7.80	8.53	9.42	10.41	11.16	11.61
Guided missiles, space vehicles, and parts.....	Dollars.....	(NA)	6.02	7.56	8.25	9.22	10.06	10.95	11.61

NA Not available. ¹ N.e.c.=Not elsewhere classified.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1082. U.S. EXPORTS OF AEROSPACE VEHICLES AND EQUIPMENT: 1980 TO 1984

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1980	1981	1982	1983	1984 ¹	1980	1981	1982	1983	1984 ¹
Aerospace vehicles and equipment, total	(NA)	(NA)	(NA)	(NA)	(NA)	15,681	17,752	15,611	16,065	16,332
Civil aircraft, total.....	4,434	3,825	1,557	1,085	1,134	8,378	8,613	4,848	5,691	4,620
Under 10,000 lbs. empty weight, new.....	3,150	2,597	915	497	500	657	703	380	195	195
10,000-33,000 lbs. empty weight, new.....	28	20	25	22	24	83	86	137	157	200
Over 33,000 lbs. empty weight, new.....	237	255	121	129	85	6,849	7,180	3,834	4,683	3,600
Rotary wing, new.....	525	453	254	216	245	299	347	206	232	230
Other new aircraft, n.e.c. ²	(NA)	(NA)	(NA)	(NA)	(NA)	5	32	74	122	95
Used, rebuilt, and converted.....	494	501	242	224	280	466	265	218	298	300
Military aircraft, total.....	502	508	637	936	1,200	949	1,712	2,388	1,845	2,600
Aircraft engines and parts, total.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,887	2,318	2,539	2,736	2,635
Internal combustion and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	270	265	264	250	245
Military, new and used.....	110	252	251	139	130	4	5	4	10	7
Non-military, new.....	1,848	1,473	1,378	915	890	25	24	25	20	16
Non-military, used.....	1,365	1,308	1,150	863	850	17	21	17	16	17
Parts, n.e.c. ²	(NA)	(NA)	(NA)	(NA)	(NA)	224	215	218	205	205
Turbines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	1,616	2,054	2,275	2,486	2,390
Military, new or used.....	254	252	394	341	400	59	78	136	163	190
Non-military, new and used.....	1,393	1,729	1,743	1,440	1,500	514	739	721	914	900
Parts, n.e.c. ²	(NA)	(NA)	(NA)	(NA)	(NA)	1,044	1,236	1,418	1,409	1,300
Missile engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	29	30	32	52	90
Propellers and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	57	48	43	43	49
Landing gear and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	92	64	74	58	49
Aircraft parts and accessories, n.e.c. ²	(NA)	(NA)	(NA)	(NA)	(NA)	3,436	4,212	4,316	4,453	4,680
Guided missiles and space vehicles.....	(NA)	(NA)	(NA)	(NA)	(NA)	327	213	716	443	750
Flight simulators.....	(NA)	(NA)	(NA)	(NA)	(NA)	54	118	132	124	180
Space vehicle equipment, n.e.c. ²	(NA)	(NA)	(NA)	(NA)	(NA)	392	313	385	499	750
Avionics.....	(NA)	(NA)	(NA)	(NA)	(NA)	80	110	137	122	115

NA Not available. ¹ Forecast. ² N.e.c. means not elsewhere classified.

Source: U.S. Bureau of Industrial Economics, *U.S. Industrial Outlook, 1984* and U.S. International Trade Administration, unpublished 1983 data.

NO. 1083. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1965 TO 1983

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1322). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals.]

ITEM	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983
Total receipts	2,446	3,669	6,879	8,456	9,739	12,127	14,208	15,670	15,467	15,839
Ocean transportation ¹	1,731	2,256	4,065	4,906	5,587	6,868	7,757	8,027	7,686	8,182
Export freight earnings.....	519	604	1,183	1,339	1,621	2,091	2,641	2,803	2,549	2,934
Freight earnings on shipments between foreign countries.....	153	209	328	395	412	480	588	561	555	575
Port expenditures.....	1,041	1,406	2,481	3,137	3,511	4,235	4,435	4,552	4,468	4,558
Charter hire.....	9	37	73	35	43	62	93	111	114	115
Air transportation.....	591	1,240	2,515	3,190	3,772	4,811	5,946	7,159	7,326	7,213
Export freight earnings.....	91	187	390	426	507	577	742	752	762	576
Passenger fares.....	262	541	1,039	1,366	1,603	2,156	2,591	3,110	3,174	3,037
Port expenditures.....	238	512	1,086	1,398	1,662	2,078	2,613	3,297	3,390	3,600
Other transportation.....	124	173	299	360	380	448	505	484	475	444
Total payments	2,668	4,058	7,971	10,720	12,019	14,090	15,397	16,961	16,494	17,854
Ocean transportation.....	1,803	2,380	4,465	6,275	7,175	8,379	8,447	8,900	8,307	8,760
Import freight payments.....	1,083	1,444	3,047	4,611	5,295	6,084	5,809	6,073	5,562	5,895
Passenger fares.....	207	245	278	261	252	258	268	287	290	305
Port expenditures.....	281	316	755	1,051	1,255	1,607	1,905	2,054	1,967	2,048
Charter hire.....	232	375	385	352	373	430	465	486	498	512
Air transportation.....	775	1,581	3,346	4,206	4,600	5,448	6,705	7,795	7,938	8,829
Import freight payments.....	40	115	248	382	448	506	562	671	725	1,005
Passenger fares.....	510	970	1,985	2,487	2,644	2,926	3,339	4,200	4,482	5,227
Port expenditures.....	225	496	1,115	1,357	1,508	2,016	2,804	2,914	2,731	2,587
Other transportation.....	90	97	160	239	244	263	245	276	249	265
Receipts balance	-222	-389	-1,092	-2,264	-2,280	-1,963	-1,189	-1,291	-1,007	-2,015

¹ 1965 includes small amount for passenger fares, not shown separately.

Source: U.S. Bureau of Economic Analysis, quarterly in *Survey of Current Business*.

No. 1084. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1960 TO 1983

[Exports are free alongside ship (f.a.s.) value (see text, p. 816) for all years; imports are f.a.s. value for 1975 and 1980 and customs value for other years. Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1960	1970	1975	1980	1982	1983	1960	1970	1975	1980	1982	1983
All methods ¹	Bil. dol.....	20.6	43.2	107.6	220.7	212.3	200.5	14.7	40.0	96.9	240.8	244.0	258.0
Vessel.....	Bil. dol.....	13.1	24.6	63.4	120.9	119.5	103.8	11.1	24.8	63.5	165.1	155.9	156.3
Air.....	Bil. dol.....	(NA)	6.1	15.2	46.1	45.3	46.7	(NA)	3.4	8.9	28.0	30.9	37.8
Shipping weight: Vessel.....	Bil. lb.....	248.5	480.5	538.5	801.8	801.1	721.2	398.1	598.4	855.3	976.8	753.7	736.6
Air.....	Bil. lb.....	(NA)	.9	1.4	2.3	2.1	1.9	(NA)	.6	1.1	1.3	1.7	2.3

NA Not available. ¹ Includes types other than vessel and air.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1085. WATERBORNE COMMERCE—CARGO TONNAGE: 1960 TO 1982

[In millions of short tons. Includes Puerto Rico and outlying areas. Import and export figures differ slightly from those shown in tables 1091 and 1092 due to minor differences in basic concepts. See source for details. See also *Historical Statistics, Colonial Times to 1970*, series Q 530-541]

CLASS	1960	1970	1974	1975	1977	1978	1979	1980	1981	1982
Net total.....	1,100	1,532	1,747	1,695	1,908	2,021	2,074	1,999	1,941	1,777
Domestic commerce ¹	761	951	983	946	973	1,076	1,080	1,077	1,054	957
Coastwise, between ports.....	209	238	233	232	248	305	305	330	322	311
Great Lakes, between ports.....	155	157	146	129	109	143	144	115	115	72
Intra: Seaports, Great Lakes ports, and inland waterways ports.....	104	81	68	78	83	90	93	84	93	76
Ports and river ports ²	292	474	515	507	532	538	539	539	524	498
Foreign commerce.....	339	581	764	749	935	946	993	922	887	820
Imports, through seaports.....	198	313	474	455	625	616	808	502	457	403
Imports, Great Lakes ports.....	12	26	23	21	33	27	25	16	20	14
Exports, through seaports.....	105	206	239	237	241	259	312	359	366	367
Exports, Great Lakes ports.....	23	36	28	35	36	44	49	45	43	36

¹ Includes traffic among ports of outlying areas. ² Represents traffic mainly utilizing inland waterways.

No. 1086. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1960 TO 1982

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

SYSTEM	1960	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total.....	220.3	318.6	358.2	354.9	342.2	372.9	368.3	409.3	424.6	406.9	410.2	351.2
Atlantic coast waterways.....	28.6	28.6	34.2	35.4	31.8	32.1	30.4	30.5	31.9	30.4	28.3	25.4
Gulf coast waterways.....	16.9	28.8	32.3	33.5	30.8	34.3	37.6	37.1	38.1	36.6	35.1	31.8
Pacific coast waterways ¹	6.0	8.4	10.5	10.3	9.7	11.3	12.8	13.6	14.1	14.9	14.4	12.8
Mississippi River system ²	69.3	138.5	155.3	168.3	170.7	189.5	196.9	208.3	218.8	228.9	234.4	219.0
Great Lakes system ³	99.5	114.5	125.9	107.5	89.2	105.6	90.7	116.9	121.7	96.0	98.0	63.2

¹ Beginning 1960, includes Alaskan waterways. ² Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. ³ Does not include traffic between foreign ports.

Source of tables 1085 and 1086: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

No. 1087. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1960 TO 1983

[In millions of dollars. 1960-1975, for fiscal years ending June 30; beginning 1977, for fiscal years ending Sept. 30. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

FISCAL YEAR	Total program ¹	Navi-gation	Flood control	Multi-ple pur-pose	FISCAL YEAR	Total program ¹	Navi-gation	Flood control	Multi-ple pur-pose
1960.....	873	310	293	270	1978.....	2,645	951	1,069	583
1965.....	1,169	426	447	283	1979.....	2,934	1,083	1,218	577
1970.....	1,128	398	379	331	1980.....	3,061	1,225	1,228	551
1975.....	2,070	694	904	439	1981.....	3,198	1,339	1,273	527
1976 ²	2,787	898	1,228	617	1982.....	2,940	1,331	1,083	453
1977.....	2,340	792	918	594	1983.....	2,959	1,290	1,088	482

¹ Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities). ² Includes the transition quarter (July-September 1976).

Source: U.S. Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

No. 1088. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1960 TO 1982

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	Mill. sh. tons	234	302	391	443	453	498	537	553	582	584	589	540
Inland.....	Mill. sh. tons.....	186	238	297	330	330	346	352	355	371	366	366	347
Coastwise.....	Mill. sh. tons.....	22	28	44	28	30	26	30	32	33	42	45	35
Foreign:													
Imports.....	Mill. sh. tons.....	11	13	17	37	46	67	96	99	106	91	80	57
Exports.....	Mill. sh. tons.....	13	23	34	47	48	60	60	67	73	86	98	101
Total	Bill. ton-miles	69.3	96.6	138.5	168.2	170.7	189.5	196.8	209.3	216.8	228.9	234.4	218.0
Inland.....	Bill. ton-miles.....	62.4	87.4	125.9	150.9	151.3	164.8	166.9	176.5	184.4	193.5	199.0	187.9
Coastwise.....	Bill. ton-miles.....	3.2	3.6	4.9	4.2	4.5	4.1	4.8	5.4	5.7	7.4	7.7	6.2
Foreign:													
Imports.....	Bill. ton-miles.....	1.8	2.3	2.8	6.5	8.0	11.7	16.2	16.8	17.6	15.1	13.3	8.8
Exports.....	Bill. ton-miles.....	1.9	3.3	4.9	6.6	6.9	8.8	8.8	10.1	11.1	13.0	14.4	15.1

¹ Total reflects adjustment not available by type of traffic.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

No. 1089. U.S. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1960 TO 1982

[In billions of ton-miles]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	99.5	109.6	114.5	125.9	107.5	99.2	105.6	90.7	118.9	121.7	96.0	98.0	63.2
Domestic.....	80.6	78.7	80.1	84.5	79.7	69.2	71.3	58.0	76.8	78.5	62.3	62.7	35.9
Lakewise.....	79.7	75.9	79.4	83.8	78.9	68.5	70.7	52.4	76.3	78.0	61.7	61.7	35.4
Internal.....	.7	.7	.6	.6	.6	.5	.4	.4	.4	.4	.5	.5	.4
Local ¹.....	.2	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1
Foreign.....	18.9	32.9	34.3	41.4	27.8	29.9	34.3	37.7	42.1	43.1	33.7	35.3	27.3
Canadian.....	13.8	23.5	23.8	26.2	19.4	20.7	23.7	23.1	23.1	26.9	23.6	25.8	16.2
Overseas.....	5.1	9.4	10.5	15.2	8.4	9.3	10.7	14.7	19.0	16.2	10.1	9.5	9.1

¹ Includes coastwise traffic.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.No. 1090. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY:
1970 TO 1982

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. See also headnote, table 1085]

COMMODITY	1970		1975		1980		1982			
	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Foreign	
									Im- ports	Ex- ports
Net total	1,531.7	950.7	1,695.0	946.3	1,998.9	1,077.5	1,776.7	957.0	416.6	403.1
Petroleum products ¹	394.7	287.3	407.6	328.5	423.2	339.2	395.5	290.1	69.2	35.5
Gasoline.....	89.3	88.7	85.7	92.2	87.3	81.0	84.0	75.0	7.1	1.8
Distillate fuel oil.....	78.8	76.9	93.4	87.0	74.6	72.1	71.3	62.1	4.7	4.6
Residual fuel oil.....	170.5	78.8	172.1	111.5	188.0	141.3	169.3	113.3	43.1	12.9
Crude petroleum.....	210.5	116.3	333.6	77.9	480.2	174.2	404.2	178.4	225.8	—
Coal and lignite.....	225.4	154.1	219.0	152.8	256.4	164.1	263.1	166.5	.6	106.0
Nonmetallic minerals ^{1 2}	166.6	132.6	159.2	123.3	157.1	111.6	116.6	79.7	19.6	17.2
Sand and gravel ³	78.4	73.9	72.4	67.9	65.1	60.8	49.5	46.9	1.5	1.1
Limestone.....	42.0	34.1	37.8	29.1	34.2	23.9	24.9	16.0	7.0	1.8
Phosphate rock.....	16.6	5.8	20.1	9.4	23.7	9.5	13.7	4.1	.2	9.5
Iron and concentrates.....	129.3	75.2	121.4	69.3	98.4	64.9	54.4	34.8	16.0	3.5
Farm products ¹	90.4	29.5	144.3	43.1	216.8	63.4	223.1	75.0	5.6	142.5
Corn.....	27.2	11.7	56.8	20.8	98.6	30.8	87.5	33.9	—	53.7
Wheat.....	25.0	5.8	44.4	10.4	53.4	14.3	62.7	17.7	—	44.9
Soybeans.....	21.2	8.3	23.2	9.4	39.6	16.1	47.7	19.8	—	28.9
Chemicals and allied products.....	62.0	39.7	66.5	40.0	91.9	49.4	79.5	41.7	10.8	27.0
Food and kindred products.....	35.0	11.0	35.5	13.3	54.8	20.4	51.6	19.3	10.8	21.7
Lumber and wood products ⁴	49.9	27.3	48.2	24.7	52.0	22.7	42.0	17.0	3.1	21.9
Primary metal products.....	42.4	10.8	38.1	9.3	28.9	9.0	25.7	5.9	17.2	2.5
Waste and scrap.....	25.9	16.0	28.0	18.8	31.1	18.8	33.1	24.2	.4	6.5
Other.....	99.7	51.9	93.5	45.5	108.1	39.8	88.1	33.7	37.5	16.8

— Represents zero.

¹ Includes categories not shown separately.² Excludes fuels.³ Includes crushed rock.⁴ Excludes furniture.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1091. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL:
1970 TO 1983

[In millions of short tons, except percent. Excludes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 524-529]

ITEM	DRY CARGO						TANKER CARGO					
	1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
Total trade.....	358	387	497	485	443	445	181	311	392	385	334	283
Percent by U.S. flag.....	6.4	5.5	4.8	5.2	4.7	5.2	4.2	5.2	2.6	4.2	4.8	7.4
Imports, total.....	198	137	134	137	112	116	181	291	354	326	264	251
U.S. flag.....	10	10	10	11	9	10	6	13	9	14	14	20
Foreign flag.....	128	127	124	126	103	106	156	278	345	312	250	231
Exports, total.....	220	250	362	347	331	329	20	21	39	60	70	32
U.S. flag.....	13	11	14	14	12	13	2	3	1	2	2	1
Foreign flag.....	207	238	348	333	319	316	18	16	38	58	68	31

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *U.S. Waterborne Exports and General Imports*, FT 985, annual; and unpublished data.

NO. 1092. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1970 TO 1983

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1975-1981 and customs value for 1970, 1982 and 1983, see text, p. 798. Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III]

DISTRICT	CARGO TONNAGE (mil. sh. tons)						VALUE (bil. dol.)					
	1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
Imports:												
Atlantic.....	219	232	183	195	172	171	15.0	34.7	71.5	78.7	72.2	75.5
Gulf.....	47	134	243	214	160	140	2.9	14.3	56.4	56.9	40.8	32.5
Pacific.....	31	64	56	48	36	44	5.5	15.2	45.0	51.3	48.2	53.9
Great Lakes.....	26	22	16	20	14	16	1.3	1.7	1.9	2.5	2.0	2.0
Exports:												
Atlantic.....	79	80	117	116	119	87	11.9	28.7	51.0	53.4	50.2	41.2
Gulf.....	78	106	163	171	172	164	6.9	21.4	41.5	43.9	41.0	36.0
Pacific.....	48	49	78	78	74	78	4.1	10.0	25.2	27.1	25.5	25.1
Great Lakes.....	36	35	45	43	36	32	1.4	2.8	4.6	4.1	3.2	2.6

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

NO. 1093. CONTAINERIZED CARGO—TONNAGE AND TWENTY-FOOT EQUIVALENT UNITS (TEU'S), BY SELECTED U.S. PORTS: 1981 AND 1982

[Based on reports filed for any vessel of 1,000 or more gross registered tonnage carrying 25 or more 8x8x20 foot TEU cargo container/trailer units]

PORT	LONG TONS (1,000)						TEU'S (1,000)					
	Total		Import		Export		Total		Import		Export	
	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982
Total ¹	37,335	37,330	16,726	17,390	20,609	19,940	3,884	3,946	1,834	1,952	2,050	1,994
New York.....	7,737	7,186	4,563	4,350	3,174	2,836	805	757	480	463	325	294
Los Angeles.....	4,068	3,605	1,711	1,815	2,357	1,990	446	404	206	211	240	193
Oakland.....	3,226	3,259	984	1,004	2,282	2,255	353	388	119	142	234	246
Seattle.....	2,925	3,195	1,153	1,485	1,772	1,710	333	369	166	217	167	152
Long Beach.....	2,986	3,088	1,733	1,798	1,253	1,290	361	364	241	242	120	122
Baltimore.....	2,584	2,454	1,008	1,038	1,576	1,416	256	246	99	100	159	146
Norfolk.....	1,848	1,714	461	516	1,387	1,198	188	178	48	51	140	127
Houston.....	2,010	1,705	1,026	800	984	905	154	146	73	60	81	86
Charleston.....	1,303	1,299	426	439	877	860	134	140	44	46	90	94
Miami.....	1,228	1,316	339	438	889	878	126	130	35	42	91	88
Savannah.....	871	901	408	394	463	507	102	107	51	52	51	55
San Francisco.....	1,017	1,011	249	277	798	734	103	93	27	25	76	68
New Orleans.....	1,068	1,024	488	469	578	555	83	92	32	37	51	55
San Juan.....	428	694	188	316	240	378	56	84	24	37	32	47
Philadelphia.....	763	874	510	655	253	219	72	75	44	51	26	24
Portland, Oregon.....	521	485	103	106	418	379	44	41	12	11	32	30

¹ Includes other ports, not shown separately.

Source: U.S. Maritime Administration, *Containerized Cargo Statistics*, annual.

NO. 1094. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1961 TO 1983

[In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS					
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo		
		Total	U.S.	Per cent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
Entered:											
1961-1965	49,670	188	33	17.9	155	166	30	136	128	19	109
1966-1970	53,459	232	29	12.5	203	206	27	180	157	18	139
1971-1975	53,780	319	30	9.5	290	292	28	264	220	24	196
1976-1980	53,700	458	40	8.7	418	425	38	387	316	30	286
1970	53,293	254	26	10.3	228	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	326	30	297	240	26	215
1979	53,288	499	45	9.0	454	482	42	420	343	33	310
1980	53,645	492	52	10.6	440	480	50	410	310	34	276
1981	52,768	470	56	11.9	414	439	54	385	294	39	255
1982	47,940	438	59	13.5	379	412	57	355	255	36	219
1983	47,144	442	62	14.0	380	416	60	355	262	39	223
Cleared:											
1961-1965	48,098	189	34	17.9	155	168	30	137	96	20	76
1966-1970	52,415	232	30	12.8	202	206	27	179	122	23	99
1971-1975	53,039	324	31	9.9	293	296	29	267	149	21	127
1976-1980	52,931	453	41	9.1	412	420	38	382	203	26	177
1970	52,195	263	27	10.6	226	226	25	201	132	20	112
1975	51,017	363	34	10.3	329	334	31	303	168	23	144
1979	52,642	497	48	9.7	449	459	44	415	223	28	195
1980	52,928	487	54	11.1	433	456	51	405	246	33	213
1981	52,637	477	56	11.7	420	446	54	392	251	33	218
1982	48,409	448	60	13.4	388	421	58	363	257	35	222
1983	47,499	449	62	13.8	387	423	60	363	247	36	211

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1095. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY CUSTOMS DISTRICTS: 1970 TO 1983

[In millions of net tons. Excludes domestic trade. Virgin Islands and Puerto Rico included in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast]

CUSTOMS DISTRICT	VESSELS ENTERED						VESSELS CLEARED					
	1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
North Atlantic Coast	102.1	114.2	118.6	113.4	109.9	107.2	99.9	116.6	115.2	111.4	104.5	101.2
With cargo	85.4	92.3	82.1	83.0	75.5	80.7	43.7	50.6	57.8	54.5	54.5	44.6
South Atlantic Coast	36.1	48.0	85.3	65.0	59.9	60.5	31.3	46.0	60.1	61.4	57.0	59.3
With cargo	27.1	33.8	41.9	40.1	37.3	38.3	11.9	14.3	22.4	24.8	24.6	23.7
Gulf Coast	36.1	89.1	172.7	162.3	145.2	141.3	42.8	96.1	175.0	169.2	148.6	143.9
With cargo	23.0	60.8	122.8	113.3	89.9	85.7	36.8	54.2	85.0	88.9	83.9	79.8
South Pacific Coast	27.5	38.4	53.3	53.4	55.5	59.6	27.7	41.2	45.1	48.8	55.5	55.2
With cargo	21.8	32.4	36.0	34.2	33.6	36.8	20.9	24.0	31.7	38.7	47.1	45.1
North Pacific Coast	24.9	36.8	50.6	44.8	41.5	46.9	24.3	33.8	60.3	54.4	55.9	63.2
With cargo	13.6	21.1	26.6	23.4	18.9	20.7	19.0	24.5	49.0	44.3	47.5	53.8
Great Lakes	27.5	28.8	31.1	31.0	26.0	26.1	27.2	29.4	31.5	31.4	26.2	26.6
With cargo	15.2	14.0	11.3	13.5	9.6	11.5	20.2	21.2	23.7	23.4	20.7	20.0

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1096. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1960 TO 1983

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-448]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983
Merchant vessels	Number	26	13	13	15	16	17	14	15	10	12	11	13
Gross tons	1,000	410	173	342	452	615	884	912	1,149	375	275	337	376
Cargo	Number	15	11	6	3	4	2	2	4	6	2	6	6
Gross tons	1,000	134	121	120	65	57	25	27	53	105	53	221	228
Deadweight tons	1,000	163	154	134	71	76	37	30	47	114	73	219	219
Tankers	Number	11	2	7	12	12	15	12	11	4	10	5	7
Gross tons	1,000	276	52	222	387	558	859	885	1,086	270	222	116	148
Deadweight tons	1,000	456	92	427	742	1,176	1,585	1,392	1,901	354	358	226	277

Source: 1960, American Bureau of Shipping, New York, NY, annually in *The Bulletin*; thereafter, U.S. Maritime Administration, *New Ship Construction*, annual.

NO. 1097. UNITED STATES FLAG MERCHANT VESSELS—NUMBER AND TONS CARRIED: 1970 TO 1983

[Deadweight tonnage in thousands. As of June 30 except, beginning 1980, as of Sept. 30. Covers oceangoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 457-502]

ITEM	CARGO ¹						TANKER					
	1970	1975	1980	1981	1982	1983	1970	1975	1980	1981	1982	1983
Number of vessels	1,479	612	553	550	524	517	301	279	310	313	304	302
Active:												
Foreign trade	354	228	195	184	171	141	32	39	32	32	26	43
Domestic trade ²	70	49	46	40	42	40	175	156	211	195	182	164
Coastwise	10	17	12	11	7	8	132	136	103	87	77	72
Noncontiguous	43	29	34	27	32	30	35	12	45	44	39	29
Special service	146	34	44	49	37	45	42	26	23	39	38	27
Inactive:												
Temporarily	41	38	31	39	45	60	22	31	24	32	47	58
Reserve fleet	868	263	237	238	229	231	30	27	20	15	11	10
Tons carried	15,445	8,175	7,872	7,919	7,597	7,991	7,835	9,433	16,107	16,558	16,511	16,746
Active:												
Foreign trade	4,699	3,901	3,826	3,530	3,428	3,281	1,076	2,303	2,793	1,611	1,715	2,419
Domestic trade ²	850	832	713	667	651	660	4,518	4,855	10,546	10,284	10,857	9,675
Coastwise	116	354	200	216	91	161	3,483	4,299	3,078	2,688	2,285	2,456
Noncontiguous	482	424	479	424	486	457	870	339	3,699	3,607	3,572	2,189
Special service	1,741	459	560	793	520	673	1,189	755	661	1,676	1,454	845
Inactive:												
Temporarily	472	541	451	555	644	931	691	1,173	1,806	2,748	2,492	3,608
Reserve fleet	7,684	2,442	2,322	2,374	2,356	2,446	361	347	301	239	193	199

¹ Includes combination passenger and cargo vessels, not shown separately. ² Includes intercoastal, not shown separately.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

NO. 1098. PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1984

[For calendar year, unless noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458 and series Q 467-472]

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984
Employment	1,000	133.4	166.9	176.4	174.1	171.0	177.3	178.9	167.0	145.0	125.0
Production workers	1,000	108.5	133.4	139.9	138.4	136.7	141.8	142.2	130.2	108.7	93.8
Value of work done	Mil. dol	2,682	5,615	6,495	6,943	7,739	9,269	11,001	10,680	9,883	8,944
On ships only	Mil. dol	2,594	5,513	6,270	6,688	7,466	8,889	10,690	10,294	9,107	8,308
Value added	Mil. dol	1,616	2,923	3,825	4,107	4,587	5,338	6,304	6,407	5,752	5,206
Building activity:											
Merchant vessels: ¹											
Under construction ²	Number	49	96	72	60	70	69	49	35	21	10
Ordered	Number	13	14	13	30	21	7	9	3	4	(NA)
Delivered	Number	13	19	25	19	21	23	22	17	15	(NA)
Cancelled	Number	-	12	-	1	1	4	1	-	-	(NA)
Under contract ³	Number	49	79	60	70	69	49	35	21	10	(NA)
Naval vessels: ¹											
Under construction ²	Number	108	63	88	91	102	99	91	93	105	111
Ordered	Number	6	16	15	25	13	11	28	30	27	(NA)
Delivered	Number	32	3	12	14	16	19	26	18	21	(NA)
Under contract ³	Number	82	76	91	102	99	91	93	105	111	(NA)
Repairs/conversions:											
Commercial ships	Mil. dol	431	688	789	808	998	1,335	1,568	1,087	1,003	913
Naval ships	Mil. dol	359	554	718	911	998	1,134	1,251	1,386	1,819	1,909
Unfinished work: ²											
Commercial ships	Mil. dol	765	4,350	3,000	2,120	1,840	2,070	1,000	638	372	100
Naval ships	Mil. dol	1,719	5,424	6,146	6,332	7,338	7,107	6,760	8,025	12,200	13,672

- Represents zero. NA Not available. ¹ Vessels of 1,000 tons or larger. ² As of Jan. 1. ³ As of Dec. 31.

Source: Shipbuilders Council of America, Washington, DC, *Annual Report*.

NO. 1099. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1983

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power or towed by other craft. Includes all full- and part-time employees]

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960.....	208	112	96	1975.....	217	154	65	1980.....	251	178	73
1970.....	216	134	83	1976.....	233	168	65	1981.....	264	187	77
1972.....	216	146	70	1977.....	242	174	68	1982.....	252	172	80
1973.....	214	149	65	1978.....	243	172	71	1983.....	229	147	82
1974.....	225	161	64	1979.....	244	173	71				

Source: U.S. Bureau of Labor Statistics, unpublished data. (Data for private yards published monthly in *Employment and Earnings*.)

NO. 1100. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1960 TO 1983, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1960 TO 1984

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Em- ploy- ment ¹	YEAR	Em- ploy- ment ¹	YEAR	East coast wage rate ²	West coast wage rate ²	YEAR	East coast wage rate ²	West coast wage rate ²
1960.....	49.2	1979.....	19.7	1970.....	\$470	\$862	1980.....	\$967	\$1,414
1970.....	37.6	1980.....	19.6	1975.....	612	900	1981.....	1,120	1,535
1975.....	20.5	1981.....	18.3	1976.....	688	1,001	1982.....	1,204	1,686
1977.....	20.9	1982.....	16.7	1977.....	737	1,072	1983.....	1,320	1,862
1978.....	19.9	1983.....	15.3	1978.....	804	1,172	1984.....	1,419	2,029
				1979.....	865	1,287			

¹ As of June 30, except beginning 1978, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. ² Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, 1960, *Seafaring Wage Rates*; thereafter, unpublished data.

NO. 1101. WORLDWIDE TANKER CASUALTIES: 1974 TO 1984

[Data for 1974-1982 covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning 1983, 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984 ¹
Total losses ²	Number.....	14	22	20	20	17	26	15	21	21	11	4
Deaths.....	Number.....	94	90	226	113	148	306	132	73	72	14	50
Oil spills.....	Number.....	48	45	29	49	35	65	32	33	9	17	5
Amount.....	1,000 tons.....	67.1	188.0	204.2	213.1	260.5	723.5	135.6	45.3	1.8	387.8	2.3

¹ Jan.-June. ² Excludes losses due to hostilities.

Source: Tanker Advisory Center, Inc., New York, NY, "Worldwide Tanker Casualty Returns," quarterly.

NO. 1102. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1983

[Vessels of 100 gross tons and over. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: OWNED	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1960.....	2,005	8,382	35,311	129,770	49	379	4,059	24,837
1965.....	2,202	11,763	41,865	160,392	116	219	3,416	21,527
1970.....	2,814	20,980	52,444	227,490	156	375	2,983	18,463
1975.....	2,466	14,289	71,129	413,021	182	1,352	5,088	17,542
1980.....	2,412	13,101	73,882	419,911	205	555	5,579	18,464
1981.....	2,269	16,932	73,864	420,835	223	380	5,869	18,908
1982.....	2,312	16,820	75,151	424,742	204	216	6,133	19,111
1983.....	2,276	15,911	76,106	422,590	159	381	6,437	19,358

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual; and *Annual Summary of Merchant Ships Completed in the World*.

No. 1103. MERCHANT VESSELS—SHIPS AND TONNAGE LOST WORLDWIDE, BY TYPE OF SHIP: 1979 TO 1982

[For merchant vessels of 100 gross tons or more. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty is declared, as opposed to the year it is reported]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1979	1980	1981	1982		1979	1980	1981	1982	
				Total	Percent of total				Total	Percent of total
Total ¹	465	387	359	402	100.0	2,210	1,804	1,238	1,632	100.0
Tankers	29	24	22	26	6.5	939	707	293	609	37.3
Ore/bulk carriers ²	17	21	16	17	4.2	374	458	307	288	17.6
General cargo	273	211	217	212	52.7	785	478	533	610	37.4
Passenger ³	5	9	3	2	.5	46	112	17	5	.3
Fishing	110	95	65	96	23.9	35	30	19	34	2.1

¹ Includes types not shown separately. ² Includes ore/bulk/oil carriers. ³ Includes cargo-passenger ships.

Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

No. 1104. MERCHANT FLEETS OF THE WORLD: 1970 TO 1982

[Vessels of 1,000 gross tons and over, 1970-1975 as of Dec. 31, Beginning 1980, as of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1982	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)	Num- ber	Avg. age (yr.)
1970, world total	19,980	13	895	21	11,899	13	2,954	8	4,232	11
United States	1,579	22	171	25	1,076	23	38	25	294	19
Foreign	18,401	12	724	22	10,823	13	2,916	8	3,938	10
1975, world total	22,872	12	714	21	12,575	13	4,272	9	5,311	11
United States	857	21	60	29	511	21	19	25	287	19
Foreign	22,015	12	654	21	12,064	13	4,253	9	5,044	11
1980, world total	24,867	13	468	24	14,242	14	4,798	10	5,359	12
United States	864	23	65	34	471	23	20	22	308	20
Foreign	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1981, world total	25,110	13	405	25	14,201	14	4,987	10	5,517	12
United States	853	23	63	35	457	24	19	21	314	20
Foreign	24,257	12	342	23	13,744	13	4,968	10	5,203	11
1982, world total	25,482	13	404	24	14,280	14	5,215	10	5,583	12
United States	832	23	55	35	446	25	25	19	306	19
Privately owned	573	18	8	25	247	17	25	19	293	19
Government-owned	259	35	47	37	199	34	-	-	13	38
Foreign	24,650	13	349	23	13,834	14	5,190	10	5,277	12
Argentina	193	18	1	31	107	16	18	16	67	21
Brazil	345	13	4	34	194	16	78	4	70	13
British Colonies	259	11	2	20	123	13	100	8	28	13
Bulgaria	110	12	4	9	46	14	43	10	17	14
Canada	103	20	8	25	34	19	16	24	47	19
China: Mainland	611	16	8	25	573	16	126	12	104	15
Taiwan	155	13	1	11	96	13	44	11	14	13
Cyprus	368	19	3	22	304	20	28	19	33	12
Denmark	258	7	3	16	154	6	22	6	79	6
Egypt	103	17	13	27	75	13	2	15	13	27
Finland	159	10	4	8	78	11	37	7	40	11
France	318	9	3	16	163	9	47	8	105	11
Germany Dem. Rep.	158	12	2	28	132	11	20	16	4	11
Germany, Fed. Rep. of	439	7	3	1	305	7	40	9	91	6
Greece	2,604	16	47	30	1,241	18	909	13	407	17
India	385	13	7	17	224	14	114	11	40	8
Indonesia	311	16	10	22	231	17	13	11	57	13
Italy	605	16	16	25	228	16	132	15	229	17
Japan	1,755	7	8	9	689	9	506	7	552	6
Korea, Rep. of	474	11	-	-	250	12	154	10	70	12
Lebanon	108	22	-	-	102	22	4	20	-	-
Liberia	2,145	10	8	21	495	10	854	10	797	10
Malaysia	115	15	3	32	76	18	16	5	20	7
Netherlands	454	8	4	24	356	7	28	7	66	12
Norway	577	7	20	17	153	7	143	7	261	7
Panama	3,141	14	31	29	2,055	15	662	11	393	13
Philippines	292	16	16	20	182	17	55	11	39	21
Poland	310	12	4	18	212	13	81	10	13	7
Romania	223	8	1	44	164	8	50	7	8	8
Saudi Arabia	192	18	3	21	102	22	14	16	73	14
Singapore	588	14	6	19	393	15	84	10	105	11
Soviet Union	2,482	14	47	21	1,802	14	175	10	458	15
Spain	517	9	1	53	325	8	73	8	118	11
Sweden	221	8	4	13	121	8	20	8	76	8
Turkey	223	12	8	30	140	12	38	11	37	12
United Kingdom	816	10	9	16	321	9	184	9	322	10
Yugoslavia	253	15	4	20	189	16	50	11	10	14
All others	2,081	13	35	21	1,402	14	230	10	414	11

- Represents zero. ¹ Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.